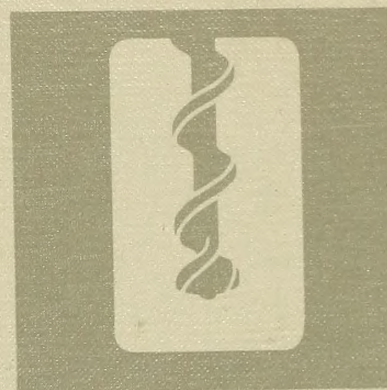


1963

CENSUS OF
MINERAL
INDUSTRIES



II

AREA
STATISTICS

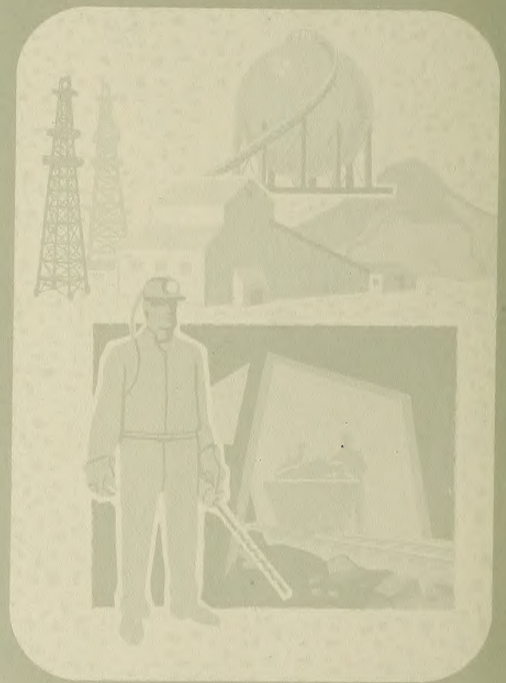
CENSUS REGIONS AND GEOGRAPHIC DIVISIONS



236814

OF THE UNITED STATES



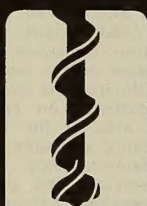


Census
REF
HD
9506
.V62
U49x
1963b
V.2

1963 CENSUS OF MINERAL INDUSTRIES

Volume II

Area Statistics



U.S. DEPARTMENT OF COMMERCE
Alexander B. Trowbridge, Acting Secretary
William H. Shaw, Asst. Secy., Economic Affairs

BUREAU OF THE CENSUS
A. Ross Eckler, Director

Bureau of the Census
Library

BUREAU OF THE CENSUS

A. Ross Eckler
Director

Howard C. Grieves
Deputy Director

INDUSTRY DIVISION

Maxwell R. Conklin
Chief

Acknowledgments

The 1963 Census of Mineral Industries was conducted under the direction of **Maxwell R. Conklin**, Chief of the Industry Division, **Owen C. Gretton**, Assistant Chief, and **Vivian Eberle Spencer**, Chief of the Mineral Industries Program. Within the Industry Division, program responsibility along industry lines was shared by the following individuals who participated importantly in the entire census program: **Wilhelmina F. Whiting**, Metal Mining, Coal Mining, and Non-metallic Minerals Mining; and **C. H. Wallace Sedgewick**, Oil and Gas Extraction. The names of the supporting statisticians in the above commodity areas who made significant contributions appear in the 18 industry reports which were published separately prior to their assembly into the Summary and Industry Volume.

Within the staff areas of the Industry Division, **Jack L. Ogus**, Assistant Chief for Statistical Methods, was responsible for statistical methods and sampling techniques; he was assisted by **Donald F. Clark**, **Elmer S. Biles** and **Edward A. Robinson** provided staff coordination on the interrelationships between the Census of Mineral Industries and the Census of Manufactures. The application of the system of industrial classification of establishments was supervised by **William Cooper**. **Alan I. Blum** coordinated the work of the Division's professional staff at the Jeffersonville, Ind., Operations Office. The preparation of the manuscript for printing was the responsibility of **Angela R. Daly**.

Systems and procedures used in processing 1963 census reports were developed in the former Economic Operations Division, **Marion D. Bingham**, Chief, and in the present Systems Division, **Sol Dolleck**, Chief, assisted by **Samuel Schweid**, **Nathan Lesowitz**, and **Jack Margolis**. Under the direction of **Eugene L. Wendt**, computer programming was developed and supervised by **Mary H. Johnson** and **Roger O. Lepage**, assisted by **Paul E. Poissant**. Clerical procedures were developed by **Joseph N. Brooks** and **William W. Perry**, under the supervision of **Carl Mueller**. Quality control plans and procedures were developed by **George Minton**, **Maxwell R. Jeane**, and **John F. Powell**, under the direction of **Herman H. Fasteau**. **Robert D. Krook**, Executive Officer, Census Operations Office at Jeffersonville, Ind., was responsible for the phases of processing operations performed there; he was assisted by **Gene P. King** and **Waller Wynne, Jr.** Data processing and related operations were performed by the former Data Processing Systems Division, **Robert F. Drury**, Chief.

Staff members in other divisions and offices of the Census Bureau also made significant contributions to the 1963 census. **Arthur Horowitz**, Coordinator of Mineral Industries and Manufactures Censuses, made important contributions to the planning and operational phases of the work. **Murray Dessel**, Economic Research and Analysis Division, coordinated the overall processing of large, multiunit companies and provided the statistics on central administrative offices and auxiliaries. **Harold T. Goldstein**, also of the Economic Research and Analysis Division, coordinated industry coding concepts in mineral industries with those followed in manufactures and business fields. **Conrad J. Thoren** and **George W. Morris**, Geography Division, supervised the preparation of maps and charts. **Geraldine Censky** and **Frances Bresnahan**, Administrative and Publications Services Division, provided editorial supervision and publication planning.

Library of Congress Card No. A66-7829

SUGGESTED CITATION

U.S. Bureau of the Census, Census of Mineral Industries, 1963
Volume II, Area Statistics

U.S. Government Printing Office, Washington, D.C., 1967

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402, or any Department of Commerce field office. Price \$5.50

Preface

This is one of two volumes presenting the final results of the 1963 Census of Mineral Industries. The 1963 census was a large-scale undertaking which depended upon significant contributions from numerous public and private organizations and individuals. The excellent cooperation of about 35,000 mining companies in completing the appropriate report forms was basic to the census. Also essential was the cooperation of the Social Security Administration, the Internal Revenue Service, and the Bureau of Mines in making available certain records, thus reducing the cost of conducting the census.

The advice and counsel of trade associations, individual mining companies, the Bureau of Mines and other government agencies, and research and marketing organizations were most valuable in determining the content of the reports, especially the product inquiries. The Advisory Council on Federal Reports provided special assistance in the matter of determining the feasibility of collecting various types of data. Precensus exchanges of ideas with the Census Bureau advisory committees of the American Statistical Association, American Economic Association, and the American Marketing Association contributed significantly to the planning phases of the census. Timely publicity was given the mineral industries census by chambers of commerce, local newspapers, trade papers, and television and radio stations.

The Bureau of Mines cooperated with the Bureau of the Census in conducting the 1963 Census of Mineral Industries. The Census Bureau is particularly indebted to the Offices of Chief Statistician and Chief Economist of the Bureau of Mines for their staff work in planning and conducting the census, and to the Bureau of Mines field offices, which collected and processed a major portion of the information for small establishments.

The 1963 Census of Mineral Industries Publication Program

Final results of the 1963 Census of Mineral Industries are published in two volumes, each containing a specific type of data.

VOLUME I. SUMMARY AND INDUSTRY STATISTICS SUMMARY STATISTICS

In addition to a general summary chapter which presents historically the basic data for industries and geographic areas, separate summary chapters present data on a subject basis. The chapters listed below were issued initially as separate reports (Series MIC63(1)—, numbers 1 to 8).

1. General Summary
2. Size of Establishments
3. Type of Organization
4. Employment and Related Statistics
5. Type of Operation
6. Fuels, Electric Energy, and Selected Supplies Used
7. Power Equipment in Mineral Industries
8. Water Use in Mineral Industries

INDUSTRY STATISTICS

Industry statistics are presented in 14 chapters, covering specific industries, and 4 summary chapters. Each chapter provides information for an industry or group of related industries. Figures for the United States are provided for each of 50 mineral industries and 22 subindustries on number of companies, number of establishments, employment, man-hours, payrolls, value added in mining, quantity and value of products shipped and supplies used, quantity and cost of fuels and electric energy purchased and quantity produced and consumed, cost of contract work, cost of purchased machinery, capital expenditures, and horsepower of equipment. Detailed statistics are shown by geographic region, by State, and by type of operation. Comparable figures for earlier years are included. The 18 chapters were issued previously as separate reports (Series MIC63(1)—, numbers 10A to 14F).

VOLUME II. AREA STATISTICS

This volume contains separate chapters for each of 48 States and a single chapter in which Maryland, Delaware, and the District of Columbia are combined. The chapters provide statistics for each State and include comparable figures for earlier years. Data are presented for each of the 50 mining industries, insofar as they have operations in a particular State; for 2- and 3-digit industry groups, by type of operation and by county; and for number of establishments, by size and by county. Statistics on

value of shipments, with selected quantity figures; value added by mining; employment; payrolls; man-hours; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments are also included. A chapter containing a general summary and summary data for the nine geographic divisions also appears in this volume. The 49 State chapters were issued previously as separate reports (Series MIC63(2)—, numbers 1 to 49).

The 1963 Census of Manufactures Publication Program

The 1963 Census of Manufactures was conducted jointly with the Census of Mineral Industries and was similar in both scope and publication program. Final results have been published in three volumes, as follows:

Volume I, Summary and Subject Statistics, contains a summary chapter, 11 subject-type chapters, and three special reports: Manufacturing Activity in Government Establishments, Shipments of Defense Oriented Industries, and Origin of Exports of Manufactured Products.

Volume II, Industry Statistics, contains separate chapters for each of 80 groups of related industries which cover approximately 430 individual industries. This volume is published in two parts. Part 1 contains a general summary chapter and chapters for SIC Major Groups 20 to 28; Part 2 contains chapters for SIC Major Groups 29 to 39 and 19. The report, Manufacturing Activity in Government Establishments, is included in this volume.

Volume III, Area Statistics, contains separate chapters for each State and the District of Columbia. The report, Manufacturing Activity in Government Establishments, is included in this volume.

OTHER REPORTS

Two series of reports have been issued showing the location and number of manufacturing plants classified according to size. The first series (9 reports) places emphasis on the industry, showing data by location. The second series (9 reports) places emphasis on the location, showing data by industry. The series titles are as follows:

- Location of Manufacturing Plants by Industry, County, and Employment Size (MC63(S)—3, numbers 1 to 9)
- Location of Manufacturing Plants by County, Industry, and Employment Size (MC63(S)—4, numbers 1 to 9)

TABLE COLUMN HEADS: GENERAL SUMMARY TABLES

TABLE 1. General Statistics: 1963 and Earlier Years

| Kind of operation and year | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|----------------------------|------------------------|---------------------------|---------------|--------------------------|--|--------------------------|------------------------|--|
| | Total | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |

| Selected expenses (\$1,000) | | | | Value of net shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh equivalent) | | Horsepower rating of power equipment (1,000) |
|---|-----------------------------------|---------------|-------------------------------|--|---------------------------------------|------------------------------|--------------------------------------|---|
| Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total (million) | Per production worker (1,000) | |

TABLE 2. Detailed Statistics by Industry Group and Industry: 1963

| Ind. code | Industry group and industry | Number of operating companies | Establishments (number) | | | | Value of shipments and receipts (\$1,000) | Value of net shipments and receipts (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development and exploration workers (1,000) | |
|-----------|-----------------------------|-------------------------------|-------------------------|---------------------------|-----------------------------|------------------------------|--|--|--|--------------------------|--|-----------------|------------------------------|--|-------------------------|
| | | | Total | With 20 or more employees | Including mining operations | Including preparation plants | | | | Total | Production, development, and exploration workers | Other employees | Proprietors and firm members | | |
| | | | | | | | | | | | | | Total | | Performing manual labor |

| Principal expenses (\$1,000) | | | | | | | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | | | | Energy used-- kwh. equivalent (million kwh.) | Aggregate horsepower (prime movers plus electric motors driven by purchased energy) (1,000) | Ind. code |
|--|-----------------|-----------------------------------|-----------------------------------|-----------------|---------------------------|---------------|--|--------------------------------|---|--|-----------------------------|--------------------------|---|--|-----------|
| Wages and salaries | | Supplies and purchases for resale | Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | Total | Development and exploration of mineral property | Preparation plant and other construction | New machinery and equipment | Used plant and equipment | | | |
| Production, development, and exploration workers | Other employees | | | | | | | | | | | | | | |

TABLE 3. Selected Statistics by Geographic Area: 1963

| Division and State | Establishments (number) | | | | Employees (number) | | | Man-hours worked by production, development, and exploration workers (1,000) | Principal expenses (\$1,000) | | | |
|--------------------|-------------------------|--------------------------------------|--|---|--------------------|---|--------------------|--|------------------------------|---|--------------------|---|
| | Total | With 20 or more em- ployees | Including mining opera- tions | Including prepara- tion plants | Total | Production, develop- ment, and exploration workers | Other employees | | Total | Wages and salaries | | Supplies and purchases for resale |
| | | | | | | | | | | Production, development, and exploration workers | Other employees | |

| Principal expenses--Con. (\$1,000) | | | | Value of shipments and receipts (\$1,000) | Value added in mining (\$1,000) | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | | Energy used-- kwh equivalent | | Horsepower rating of power equipment | |
|------------------------------------|-----------------|---------------------------|---------------|--|--|--|--------------------------------|---|--|------------------------------|--------------------------------------|--------------------------------------|-----------------------|
| Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | | | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment | Total (million) | Per production worker (1,000) | Total (1,000) | Per production worker |

TABLE COLUMN HEADS: GENERAL SUMMARY TABLES--Continued

TABLE 4. Selected Statistics by Major Industry Group and Industry: 1963 and Earlier Years

| Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|--|-------------------------------------|-------------------------|-----------------------------|------------------------------|--|--|--|-----------------|------------------------------|-------------------------|---|
| | | Total | Including mining operations | Including preparation plants | | | Production, development, and exploration workers | Other employees | Proprietors and firm members | | |
| | | | | | | | | | Total | Performing manual labor | |
| | | | | | | | | | | | |

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | | | Energy used (million kwh. equivalent) | Aggregate horsepower (1,000) |
|--|-----------------|-----------------------------------|-----------------|---------------------------|---------------|--|---|--|-----------------------------|--------------------------|--|-------------------------------------|
| Wages and salaries | | Supplies and purchases for resale | Purchased fuels | Purchased electric energy | Contract work | | Development and exploration of mineral property | Preparation plant and other construction | New machinery and equipment | Used plant and equipment | | |
| Production, development, and exploration workers | Other employees | | | | | | | | | | | |
| | | | | | | | | | | | | |

TABLE 5. General Statistics by Geographic Area: 1963 and Earlier Years

| Geographic area and year | | | | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--------------------------|--|--|--|------------------------|---------------------------|---------------|--------------------------|--|--------------------------|------------------------|--|
| | | | | Total | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| | | | | | | | | | | | |

| Selected expenses (\$1,000) | | | | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Aggregate horsepower | |
|---|-----------------------------------|---------------|-------------------------------|--|---------------------------------------|-------------------------------|--------------------------------------|--------------------------|-----------------------|
| Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total (million) | Per production worker (1,000) | Total (1,000 hp.) | Per production worker |
| | | | | | | | | | |

TABLE 6. Industry Shipments and Receipts and Net Shipments of Primary Products: 1963

| Ind. code | Industry or subindustry | Shipments and receipts of establishments classified in the industry | | | | | Net shipments of primary products or services | | |
|-----------|-------------------------|---|------------------|--------------------|---------------------------------|--|--|--|---|
| | | Total | Primary products | Secondary products | Receipts for secondary services | Products purchased and resold without further processing | Total (produced or performed in all industries) | Produced or performed in this industry | Produced or performed in other industries |

TABLE 7. 1963 Bureau of the Census and Bureau of Mines Statistics Compared

| Product | Unit of measure | Bureau of the Census statistics | | | Bureau of Mines statistics | | |
|---------|-----------------|---------------------------------|---|------------|----------------------------|-----------|-----------|
| | | Production | Shipments, including interplant transfers | | Production | Shipments | |
| | | | Quantity | Value | | Quantity | Value |
| | | | | (Quantity) | | | (\$1,000) |

TABLE COLUMN HEADS: GEOGRAPHIC DIVISIONS AND STATES

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|----------------------------|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|----------------------------|--|--|----------------------------|--|--|-----------------------------------|-------------------------------|----------------------------------|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | 1958 | | | |
|--------------|---------------------------|----------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- | | | |
|------|-----------------------------|--------------------|--|--|----------------------------|--|----------------------|--|---|--|--------------------|--|--------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other construction, machinery, and equipment (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |

TABLE COLUMN HEADS: GEOGRAPHIC DIVISIONS AND STATES-Continued

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|-------------------------------------|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 10 | ALL MINERAL INDUSTRIES | 344 | 336 | 72 | 5 | 67 | - | 258 | 1 | 249 | 8 | 6 | 8 |
| | NUMBER OF ESTABLISHMENTS..... | 3 087 | 3 060 | 500 | (D) | (D) | - | 2 511 | (D) | 2 453 | (D) | 49 | 27 |
| | NUMBER OF EMPLOYEES..... | 37 592 | 37 588 | 7 430 | (D) | (D) | - | 29 479 | (D) | 29 123 | (D) | 679 | 4 |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 11 | 8 | 5 | 5 | - | - | 1 | 1 | - | - | 2 | 3 |
| | NUMBER OF EMPLOYEES..... | 322 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 452 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141MDimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|--|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| MONTANA, TOTAL | 427 | 416 | 11 | 1 | 13 | 13 | 42 | - | 8 | 2 | 1 | - | - | 30 | - | 158 | 2 | 75 | 1 | - | 8 | 3 | 43 | 4 | 3 | 2 | 6 | 1 | 9 | 2 |
| NO EMPLOYEES | 114 | 113 | 1 | 1 | 2 | 7 | 15 | - | 2 | 1 | 1 | - | - | 9 | - | 55 | - | 5 | - | - | 1 | 1 | 11 | - | 2 | - | - | - | 2 | - |
| 1-4 EMPLOYEES | 203 | 194 | 9 | - | 6 | 2 | 22 | - | 2 | 1 | - | - | - | 16 | - | 83 | 1 | 34 | 1 | - | 4 | 1 | 18 | 4 | 1 | 2 | 1 | - | 2 | 2 |
| 5-9 EMPLOYEES | 34 | 34 | - | - | - | 2 | 3 | - | 1 | - | - | - | - | 4 | - | 5 | - | 6 | - | - | 1 | - | 9 | - | - | - | - | 1 | - | - |
| 10-19 EMPLOYEES | 36 | 35 | 1 | - | 2 | - | 2 | - | 2 | - | - | - | - | 1 | - | 1 | 1 | 15 | - | - | 2 | 1 | 5 | - | - | 2 | - | - | - | - |
| 20-49 EMPLOYEES | 22 | 22 | - | - | 1 | - | - | - | 1 | 1 | - | - | - | - | - | 7 | - | 11 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 50-99 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 4 | 4 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 250-499 EMPLOYEES | 3 | 3 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 1000 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BEAVERHEAD COUNTY, TOTAL | 14 | 14 | - | - | - | 1 | 5 | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | - | 1 | - | 2 | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | 1 | 5 | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |

CONTENTS

| | page |
|--|------|
| Introduction | 1 |
| Charts and General Summary Tables | 19 |
| Geographic Division | 73 |
| State Chapters: | |
| Alabama | 1-1 |
| Alaska | 2-1 |
| Arizona | 3-1 |
| Arkansas | 4-1 |
| California | 5-1 |
| Colorado | 6-1 |
| Connecticut | 7-1 |
| Florida | 8-1 |
| Georgia | 9-1 |
| Hawaii | 10-1 |
| Idaho | 11-1 |
| Illinois | 12-1 |
| Indiana | 13-1 |
| Iowa | 14-1 |
| Kansas | 15-1 |
| Kentucky | 16-1 |
| Louisiana | 17-1 |
| Maine | 18-1 |
| Maryland, Delaware, and District of Columbia | 19-1 |
| Massachusetts | 20-1 |
| Michigan | 21-1 |
| Minnesota | 22-1 |
| Mississippi | 23-1 |
| Missouri | 24-1 |
| Montana | 25-1 |
| Nebraska | 26-1 |
| Nevada | 27-1 |
| New Hampshire | 28-1 |
| New Jersey | 29-1 |
| New Mexico | 30-1 |
| New York | 31-1 |
| North Carolina | 32-1 |
| North Dakota | 33-1 |
| Ohio | 34-1 |
| Oklahoma | 35-1 |
| Oregon | 36-1 |
| Pennsylvania | 37-1 |
| Rhode Island | 38-1 |

CONTENTS

| | page |
|--|------|
| State Chapters: | |
| South Carolina | 39-1 |
| South Dakota | 40-1 |
| Tennessee | 41-1 |
| Texas | 42-1 |
| Utah | 43-1 |
| Vermont | 44-1 |
| Virginia | 45-1 |
| Washington | 46-1 |
| West Virginia | 47-1 |
| Wisconsin | 48-1 |
| Wyoming | 49-1 |
| Appendixes: | |
| A Minerals Census Reports Forms and Punchcards | A-1 |
| B Authority for Census: Title 13, United States Code | B-1 |

I. GENERAL

1. Purpose of the Census of Mineral Industries
2. Economic Significance of the Mining Sector
3. Earlier Censuses of Mineral Industries
4. Definition of Mineral Industries
5. The Standard Industrial Classification
6. Establishment Statistics
7. Geographic Areas
8. Coverage of the Census
9. Cooperation With the Bureau of Mines
10. Development of the Mailing List
11. Collection and Processing of Reports
12. Census Report Forms
13. Establishment Location and Company Characteristics

II. EXPLANATIONS OF TERMS USED IN COLLECTION AND PUBLICATION OF DATA

14. Type of Operation
15. Operating Companies
16. Persons Engaged in Mining
17. Monthly and Average Employment

I. GENERAL

1. PURPOSE OF THE CENSUS OF MINERAL INDUSTRIES

The census of mineral industries provides a detailed account of the activities of the mineral raw materials industries in the United States. This census obtains, from every mining establishment with one employee or more and for most others with products or expenditures amounting to \$500 or more, information on input of labor, supplies, and equipment; output of products and developed mineral properties; location; mining methods; and the legal form of organization of the owning firm. This information is obtained in sufficient detail to permit classification of the establishment by industry, by type of operation, by size, by the homogeneity of its output and, where desirable, by extent of vertical integration and other characteristics.

The census of mineral industries is conducted simultaneously with the censuses of manufactures, wholesale and retail trade and selected services, and transportation.¹ This has facilitated the statistical coverage of the entire range of activities of most enterprises and a consequent improvement in the capability of the Bureau of the Census both to

¹ The 1963 censuses covered the United States, Guam, and the Virgin Islands. Separate censuses of manufactures and business for 1963 were also conducted in Puerto Rico jointly with the Commonwealth Government. The statistics from 1958 onward include establishments in Alaska and Hawaii, which achieved statehood in 1959. Statistics for Alaska and Hawaii are also included for 1954, 1919, and 1909, unless otherwise indicated.

18. Production, Development, and Exploration Worker Man-Hours
19. Payrolls for the Year
20. Supplies and Related Costs, Contract Work, and Purchased Machinery
21. Specific Supplies Used
22. Minerals Prepared
23. Capital Expenditures
24. Individual Products
25. Indexes of Production and Unit Value
26. Shipments, Production, Custom Milling, and Net Shipments
27. Value Added in Mining
28. Energy Used
29. Power Equipment
30. Relation of Labor Costs to Output

III. SPECIAL REPORTS AND PROCEDURES

31. Special Reports Shown in Volume I, Summary and Industry Statistics
32. Imputation of Data
33. Confidentiality of Data for Individual Companies
34. Abbreviations

deal effectively with the statistical problems of identifying establishments which support mining activity, such as central administrative offices, auxiliaries, and sales branches, and to classify entire enterprises into industrial categories.

General statistics information (total employment; payroll; number of production, development, and exploration workers; man-hours; wages; cost of supplies, etc.; value of shipments and receipts; capital expenditures; value added by mining) from the census of mineral industries is published by industry, by area, by employment size of establishment, by type of operation, and by type of ownership. Information on detailed industrial characteristics is supplied for each State and for large mining counties; overall measures of mining activity are shown for all other counties in which a significant amount of mining is done. This information constitutes a periodic inventory of the Nation's mineral industries that provides a benchmark for measuring the changes in their structure.

The census of mineral industries is not only a benchmark for many surveys, but also the means of updating other important indicators of the economic activity. It provides important information on the mining segment used in the national income accounts. Census data on supplies used and product output are basic to the mining sector of the input-output studies of the Bureau of Mines and the Office of Business Economics. The information derived from the census of mineral industries is also used by the Federal Reserve Board in cooperation with the Census Bureau to develop indexes of industrial production for census years. These indexes are used as benchmarks for the monthly

Table A. PERCENT DISTRIBUTION OF RAW MATERIALS PRODUCTION FOR SELECTED PERIODS:
1900 to 1959

| Raw materials group | 1900-09 average | 1920-29 average | 1950-59 average |
|------------------------------------|--------------------|--------------------|--------------------|
| All raw materials..... | 100 | 100 | 100 |
| Minerals..... | 17 | 26 | 33 |
| Agricultural materials..... | 67 | 62 | 60 |
| Forest products..... | 15 | 10 | 6 |
| Fishery and wildlife products..... | 1 | 1 | 1 |

Source: U.S. Bureau of the Census, Raw Materials in the United States Economy: 1900-1961 (Working Paper No. 6).

Federal Reserve Index of Industrial Production—a key monthly indicator of current economic activity.

The concurrent collection of comparable data on wholesale and retail trades, selected services, manufacturing, and minerals in the censuses beginning with 1954 has encouraged the Census Bureau to develop its Enterprise Statistics Program, which relates census company-level data to the establishment data. Thus, a measure of the integration and diversification of the American enterprise system becomes available. Likewise, through the Enterprise Statistics Program, it is possible to link census establishment-based data on a modified basis to other statistical systems, such as those of the Internal Revenue Service's Statistics of Income for corporations.

2. ECONOMIC SIGNIFICANCE OF THE MINING SECTOR

The mineral industries in recent years have accounted for less than 2 percent of national income and have required employment of less than 2 percent of all gainful workers in the United States. Nevertheless, the mineral industries furnished an increasing proportion of the raw materials base of

the economy. In 1961, the mining industries supplied 32 percent of all raw materials produced; agricultural materials, 61 percent; forest products, 6 percent; and fishery and wildlife products, 1 percent. This may be compared with averages for the first decade of this century when mineral products accounted for only 17 percent of all raw materials. Table A compares such figures for three periods in the last half century.

Production of minerals in the United States requires a relatively much greater expenditure of capital and equipment than is needed for the manufacturing industries. Although value added in mining in 1963 amounted to only 8 percent of total value added for mining and manufacturing combined, capital expenditures in the mineral industries were 22 percent of the total for mining and manufacturing, and horsepower of power equipment, excluding highway-type equipment, 19 percent of the total. (See table B.) Moreover, the oil and gas extraction industries alone accounted for 17 percent of all capital expenditures for mining and manufacturing. (In comparing figures in table B, it should be noted that value added in mining includes a measure of value added in the development of mineral properties, see section 27, and capital expenditures include expenditures for development of mineral properties, see section 23.)

Table B. VALUE ADDED, EMPLOYMENT, CAPITAL EXPENDITURES, AND HORSEPOWER OF EQUIPMENT
IN MINERAL AND MANUFACTURING INDUSTRIES: 1963

| Item | Mineral industries | | Manufacturing industries | Mineral industries as percent of mineral and manufacturing industries | |
|---------------------------------|--------------------|-----------------------------|--------------------------|---|-----------------------------|
| | All mining | Oil and gas extraction only | | All mining | Oil and gas extraction only |
| Value added.....\$1,000,000.. | 15,910 | 11,020 | 192,103 | 7.6 | 5.3 |
| Capital expenditures.....do.. | 3,264 | 2,552 | 11,371 | 22.3 | 17.4 |
| Employment.....1,000.. | 616 | 272 | 16,961 | 3.5 | 1.5 |
| Horsepower of power equipment: | | | | | |
| Including highway type.....do.. | 52,772 | 28,309 | (NA) | (NA) | (NA) |
| Excluding highway type.....do.. | 36,255 | 16,924 | 151,498 | 19.3 | 9.0 |

(NA) Not available.

3. EARLIER CENSUSES OF MINERAL INDUSTRIES

The 1963 Census of Mineral Industries is the 15th such census of the United States. The first minerals census covered the year 1840. Such censuses have been conducted for the intervening years: 1850, 1860, 1870, 1880, 1889, 1902, 1909, 1919, 1929, 1935, 1939, 1954, and 1958. Present legislation provides for a census of mineral industries to cover the year 1967 and every fifth year thereafter.

The scope and quality of the minerals censuses have varied. While many of the problems and concepts involved in such a census were recognized early, the difficulties of locating mineral operators and the meager records often maintained impaired the quality of the first few censuses. Beginning with 1880, however, fairly comparable statistics have been available. The most comprehensive previous censuses are those covering the years 1880, 1889, 1902, 1909, 1919, 1939, 1954, and 1958.

For 1963, as in previous years, most of the basic inquiries were common to the censuses of mineral industries and manufactures. The statistics published for mineral industries are generally comparable with those published for manufacturing industries, although in somewhat greater detail.

4. DEFINITION OF MINERAL INDUSTRIES

The mineral industries include all establishments primarily engaged in mining. This term is used in the broad sense to include the extraction of minerals occurring naturally: Solids, such as coal and ores; liquids, such as crude petroleum; and gases, such as natural gas. The term "mining" is also used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparation and beneficiating needed to render the mineral marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the development of mineral properties are classified separately within this division.

Mining operations are classified by industry, on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in process. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

Mineral preparation plants are usually operated together with mines or quarries and frequently no separate records for them are maintained. All such preparation plants are included in the scope of the minerals census. In general, separately operated preparation plants, whether they process minerals for the account of the operator or on a custom or toll basis for others, are also included in the minerals census. Coal cleaning and sizing plants operated at mines or as separate establishments are also included. However, crushing, grinding, and other treatment of certain non-metallic minerals at separately operated plants is included in the manufacturing industries.

Contract hauling (except out of open-pits in conjunction with mining) is excluded from the mineral industries.

Statistics on mining operations which are carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mix concrete plants) are not within the scope of this census. However, certain information on these operations has been obtained in the census of manufactures and is included in some of the summary and industry reports and in the State reports. Wherever such inclusion occurs, it is clearly specified.

All blast furnaces; metal smelters; metal and petroleum refineries; plants manufacturing cement, brick, tile, and pottery; and plants engaged in dressing or polishing stone are classified in the manufacturing industries. Separate reports were obtained and included in the minerals census for the few ore-dressing plants operated in conjunction with smelters and for the few natural gas liquids recovery plants operated as parts of chemical establishments.

5. THE STANDARD INDUSTRIAL CLASSIFICATION

The specific industry coding and grouping in the 1963 Census of Mineral Industries follows the structure of the Standard Industrial Classification Manual (SIC), published by the Bureau of the Budget.

This manual, which is a classification structure for the entire national economy, was first issued in 1939. In the mining sector, the manual built upon the mining industry classifications developed over the years in connection with the census of mineral industries. The SIC is intended for use in classifying establishments by type of activity in which they are engaged in order to facilitate the collection, tabulation, and publication of figures relating to establishments and to promote uniformity and comparability in the presentation of statistics. It is used by all Federal statistical agencies, by most State agencies, and by many trade associations, research organizations, and others.

There is no other industrial classification system in widespread use, nor is there any other general-purpose system described in detail in official manuals or other published documents. Awareness of the SIC by business analysts, executives, statisticians, research scholars, and others has grown rapidly and will continue to increase, particularly in view of the adaptability of the decimal numeric system in mechanical processing.

The SIC divides all activities into broad industrial divisions (manufacturing, mining, retail, agriculture, etc.). It further subdivides each division into major industry groups, then into industry groups, and finally into detailed industries. The numbering system provides flexibility, permitting use of classification at various levels of detail according to the specific needs and uses desired. Employing a decimal system of coding, the Major Industry Group is assigned two digits (Major

Table C. VALUE ADDED AND EMPLOYMENT IN THE MINERAL INDUSTRIES, BY MAJOR INDUSTRY GROUP: 1963

| Industry group | Value added in mining | | Employment | |
|---|-----------------------|------------------|--------------------|------------------|
| | Million dollars | Percent of total | Thousand employees | Percent of total |
| All mineral industries..... | 15,910 | 100 | 616 | 100 |
| Metal mining..... | 1,418 | 9 | 77 | 12 |
| Anthracite mining..... | 120 | 1 | 12 | 2 |
| Bituminous coal and lignite mining..... | 1,607 | 10 | 134 | 22 |
| Oil and gas extraction..... | 11,020 | 69 | 272 | 44 |
| Nonmetallic minerals mining..... | 1,745 | 11 | 121 | 20 |

Group 10, for Metal Mining), the Industry Group, three digits (Group 104 for Gold and Silver Ores), and the industry, four digits (Industry 1042 for Lode Gold). Thus, for each 4-digit industry, it is possible to identify the Industry Group to which it belongs by the first three digits of its code and the Major Industry Group by its first two digits.

The minerals census covers all establishments classified in Division B—Mining—of the Standard Industrial Classification. This classification divides the Mining industries into five Major Groups: Metal mining; anthracite mining; bituminous coal and lignite mining; oil and gas extraction; and nonmetallic minerals, except fuels, mining. These five major groups are divided into 20 subgroups and into 50 individual industries. Table C shows the relative magnitude of the five major groups in terms of value added in mining and employment.

Separate general statistics are published for the SIC industries. Also, selected statistics are published for certain subindustries, such as lead ores, zinc ores, oil- and gas-field well surveying and cementing wells services, crushed and broken limestone, glass sand, and asbestos. The definitions of these industries and subindustries are included in the introductory texts of the pertinent industry reports.

The industry and subindustry classifications used in the 1963 minerals census are, in general, the same as the industry classifications used in the 1958 census and other recent minerals censuses.

6. ESTABLISHMENT STATISTICS

The census of mineral industries obtains data, on the basis of an entire establishment, for the output and shipments of mineral products; operating and development costs; and labor, mechanical equipment, and materials requirements. Because of the nature of most operators' records, these data necessarily include the secondary products of the establishment as well as the primary products which determine the industry classification. Thus, some bituminous coal mines also produce clay; many oil wells also produce gas; silver ores contain significant quantities of copper, lead, zinc, gold, and other metals. Mines producing significant quan-

ties of two or more different minerals are classified according to the mineral of greatest value (not tonnage) shipped during the year. A mine producing ores containing both silver and lead, for instance, is classified as a silver mine if the silver contained exceeds in value the lead content and vice versa. In most mining industries, however, the production of secondary minerals is of little statistical importance. This differs from the situation in manufacturing where about half of the industries have secondary production amounting to 10 percent or more of total shipments.

Operating companies were instructed that a mineral establishment, for purposes of the census report, is generally defined as a single physical location where mineral operations are conducted; for example, a mine only, a mine and preparation plant, or a preparation plant only. An establishment in this census, in general, represents workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or preparation process. Individual shafts, openings, or sites, however, are not necessarily considered as individual establishments.

For oil- and gas-field operations and contract services, reports were required for units somewhat different from the "establishment" reporting unit used for other types of mining. Only one report was required for all oil- and gas-field operations of a reporting company in each State except that district reports were required for Louisiana, Texas, and New Mexico. (However, information on employment, oil and gas production, and capital expenditures was included in this report on a county basis.) For service operations, only one report was required for all mineral services of a company in the United States. (However, information on employment, receipts for services, and capital expenditures was requested by county.)

In practice, some flexibility was allowed in the application of the establishment definition in specific industries. Where a company did not keep separate records for two or more establishments engaged in the same type of activity and located within the same State and county, a consolidated

report was usually accepted and the operations counted as a single establishment. Separate reports were frequently furnished for open-pit and underground operations, but consolidated reports were made for most industries. Such consolidation is very important in the anthracite industry.

Census tabulations of establishment reports differ substantially from those prepared on a company basis which not only combine activities at different locations (thereby eliminating inter-plant transfers), but also include the manufacturing activities of companies primarily engaged in mining. Census figures also differ to some extent from other surveys based on establishment reports where the definition of an establishment as to location and line of activity is not so rigidly applied.

Establishment counts shown in the 1963 census are closely comparable with those for most earlier years, except that the collection of district reports for operators of oil- and gas-field properties in Louisiana, Texas, and New Mexico increased the establishment counts significantly for these areas while providing a substantial amount of detailed information not previously available for each of the districts. However, for some census years, such

as 1929 and 1919, consolidated reports covering two or more operations appear to have been accepted to a greater extent than in 1963.

7. GEOGRAPHIC AREAS

In order to present census data at an intermediate level between the United States and the individual 50 States, the Census Bureau has used regional groupings for over a century. Beginning with the 1909 Census of Mines and Quarries, the present nine geographic divisions have been used. Beginning with the 1954 census, the nine divisions were grouped further into four broad geographic regions: Northeast, North Central, South, and West.

Not only are these groupings convenient for the summary presentation of census statistics below the U.S. level, but they are also needed to present uniform geographic information for those individual industries in which application of the Census disclosure law precludes the publication of individual State figures. The relative importance of the mineral industries in 1963 among States and geographic divisions is shown in table D.

Table D. VALUE ADDED IN MINING BY GEOGRAPHIC DIVISIONS AND STATES: 1963

| Division and State | Value added in mining (million dollars) | Per cent | Division and State | Value added in mining (million dollars) | Per cent |
|---------------------------|---|----------|---------------------------|---|----------|
| United States, total.. | 15,910 | 100.0 | South Atlantic--Continued | | |
| New England..... | 42 | 0.3 | Virginia..... | 145 | 0.9 |
| Maine..... | 1 | (Z) | West Virginia..... | 596 | 3.7 |
| New Hampshire..... | 2 | (Z) | North Carolina..... | 32 | 0.2 |
| Vermont..... | 9 | 0.1 | South Carolina..... | 19 | 0.1 |
| Massachusetts..... | 17 | 0.1 | Georgia..... | 76 | 0.5 |
| Rhode Island..... | 2 | (Z) | Florida..... | 109 | 0.7 |
| Connecticut..... | 11 | 0.1 | East South Central..... | 747 | 4.7 |
| Middle Atlantic..... | 740 | 4.6 | Kentucky..... | 337 | 2.1 |
| New York..... | 130 | 0.8 | Tennessee..... | 90 | 0.6 |
| New Jersey..... | 55 | 0.3 | Alabama..... | 119 | 0.7 |
| Pennsylvania..... | 555 | 3.5 | Mississippi..... | 201 | 1.3 |
| East North Central..... | 1,043 | 6.6 | West South Central..... | 7,802 | 49.0 |
| Ohio..... | 224 | 1.4 | Arkansas..... | 110 | 0.7 |
| Indiana..... | 108 | 0.7 | Louisiana..... | 2,640 | 16.6 |
| Illinois..... | 451 | 2.8 | Oklahoma..... | 806 | 5.1 |
| Michigan..... | 223 | 1.4 | Texas..... | 4,246 | 26.7 |
| Wisconsin..... | 37 | 0.2 | Mountain..... | 2,102 | 13.2 |
| West North Central..... | 1,069 | 6.7 | Montana..... | 111 | 0.7 |
| Minnesota..... | 368 | 2.3 | Idaho..... | 40 | 0.3 |
| Iowa..... | 33 | 0.2 | Wyoming..... | 453 | 2.8 |
| Missouri..... | 66 | 0.4 | Colorado..... | 253 | 1.6 |
| North Dakota..... | 74 | 0.5 | New Mexico..... | 650 | 4.1 |
| South Dakota..... | 26 | 0.2 | Arizona..... | 297 | 1.8 |
| Nebraska..... | 69 | 0.4 | Utah..... | 268 | 1.7 |
| Kansas..... | 433 | 2.7 | Nevada..... | 40 | 0.3 |
| South Atlantic..... | 1,012 | 6.4 | Pacific..... | 1,353 | 8.5 |
| Delaware..... | 35 | 0.2 | Washington..... | 24 | 0.2 |
| Maryland..... | | | Oregon..... | 18 | 0.1 |
| District of Columbia..... | | | California..... | 1,253 | 7.9 |
| | | | Alaska..... | 53 | 0.3 |
| | | | Hawaii..... | 5 | (Z) |

(Z) Less than 0.05 percent.

For Texas and Louisiana, the two largest States in terms of value added by mining, and for New Mexico, the 1963 minerals census provided, for the first time, information by districts for the oil and gas extraction industries. Separate tabulations were made for North and for South Louisiana (including adjacent offshore operations); for 11 districts in Texas (3 of which include adjacent offshore operations); and for East and West New Mexico.

In Volume II, Area Statistics, industry detail is shown, wherever possible under the rules of confidentiality and size significance, at the regional, State, and county levels. All-mining totals are also shown. The level of industry detail in each area is as follows: For States, 2-, 3-, and 4-digit industry; and for counties, 2- and 3-digit industry (shown only for those industry groups which have \$500 thousand or more in value of shipments or receipts for the industry group in the county). In the industry reports of Volume I, Summary and Industry Statistics, county figures are also shown for coal mining and oil and gas extraction. For the oil and gas extraction industries, the counties in Louisiana, Texas, and New Mexico are grouped by district and district totals are shown.

In the census of mineral industries, as in the other economic censuses, each individual establishment was assigned a geographic code that indicated the State and the county in which it was principally located. For most mines and preparation plants, the location of the establishment can be specified with little or no ambiguity. Establishments which straddle boundary lines are generally classified according to the location of the principal activities. For the county statistics tabulations for the crude petroleum and natural gas and contract services industries, full statistics were estimated by county for each establishment by allocating the reported data on the basis of the county detail reported for employment, quantity production, receipts for services, and capital expenditures.

In previous censuses, the geographic code was manually assigned to every report after a clerical review of the physical location reported by the respondent. In 1963, the report form was precoded by high-speed electronic equipment prior to mailing through the use of an extensive file of addresses classified by place. Only those reports which indicated differences between the mailing address and the reported physical location were manually coded after receipt.

8. COVERAGE OF THE CENSUS

The 1963 Census of Mineral Industries excludes very small establishments and certain noncommercial operations. The small establishments excluded represent those without employees and

for which each of the following three items amounted to less than \$500 for the entire year: (1) Value of products shipped and services performed for others; (2) expenses for wages, salaries, supplies, minerals received for preparation, fuel, purchased electric energy, contract work, and purchased machinery; and (3) capital expenditures for development and exploration of mineral properties, new construction and major alterations, and new and used machinery and equipment.

The cutoff for establishments covered in the 1963 census was essentially the same as that used for 1958 and 1954, but lower than in other recent minerals censuses. For 1939 and 1929, in general, small establishments were excluded if each of three similar items amounted to \$2,500, and for 1919, if value of products was less than \$500 and expenditures for development work less than \$5,000. For bituminous coal and lignite, an output criteria of 1,000 tons was used in these three censuses. For 1939, common sand and gravel operations were excluded if they produced less than 15,000 tons of sand and gravel and had expenses of less than \$15,000. For 1929, common sand and gravel establishments producing less than 25,000 tons were excluded, and this industry was not covered in censuses prior to 1929. Minimums for size of establishment included were not provided for earlier censuses.

The production of minerals, particularly stone, sand, and gravel, by Federal, State, and local governments is excluded from the census. Also excluded is some production of these items by highway contractors who do not maintain separate records for sand and gravel production. The census includes, however, mining establishments operated entirely to serve other establishments of the same company, such as coal mines serving only coke ovens operated by the same company, oil and gas wells serving only refineries or public utilities owned by the same company, and copper mines and mills where all of the ore is transferred to a company-owned smelter.

The 1963 Census of Mineral Industries covered establishments meeting the value criteria whether or not they had employees. The mailing lists available for establishments with no employees, such as establishments for which all labor was furnished by proprietors or contractors, were somewhat less complete than for those with employees. However, it is believed that in most areas such establishments were included where they met the specified criteria. Specific limitations in such coverage are discussed in the separate industry texts.

Cumulative percentages for number of establishments, value added in mining, and capital expenditures by employment size classes are shown in table E.

Table E. CUMULATIVE PERCENTAGES BY EMPLOYMENT SIZE CLASS FOR NUMBER OF ESTABLISHMENTS, VALUE ADDED IN MINING, AND CAPITAL EXPENDITURES: 1963

| Employee size class | Number of mining establishments | Value added by mining | Capital expenditures |
|-------------------------------|---------------------------------|-----------------------|----------------------|
| All establishments..... | 100.0 | 100.0 | 100.0 |
| 0 to 4 employees..... | 60.1 | 7.2 | 12.6 |
| 5 to 9 employees..... | 73.8 | 11.9 | 17.8 |
| 10 to 19 employees..... | 85.7 | 19.2 | 24.4 |
| 20 to 49 employees..... | 94.7 | 34.1 | 38.3 |
| 50 to 99 employees..... | 97.5 | 46.1 | 49.7 |
| 100 to 249 employees..... | 99.1 | 63.3 | 65.6 |
| 250 to 499 employees..... | 99.7 | 79.2 | 78.4 |
| 500 to 999 employees..... | 99.9 | 89.4 | 88.8 |
| 1,000 to 2,499 employees..... | 100.0 | 99.0 | 99.4 |
| 2,500 employees and over..... | 100.0 | 100.0 | 100.0 |

In general, it is believed that the 1963 minerals census reports provided essentially complete coverage of production and development operations. About 98 percent of the total shipments of oil, and probably about 98 percent of the total shipments of gas were covered. This may be compared with an indicated 97 percent coverage in the 1958 census and an indicated 96 and 95 percent, respectively, in the 1954 minerals census. The special problems faced in covering this industry and details on the apparent coverage attained are discussed in the special text for Crude Petroleum and Natural Gas. Undercoverage of the crude petroleum and natural gas industry appears to have reduced the overall minerals census coverage of value of shipments by only about 1 percent. However, this undercoverage is somewhat more significant for certain States.

9. COOPERATION WITH THE BUREAU OF MINES

The Bureau of Mines, U.S. Department of the Interior, cooperated with the Bureau of the Census in conducting the 1963 minerals census. The purpose of this cooperation was to assure comparable coverage and comparable but, insofar as feasible, unduplicated results, and to minimize the reporting burden for respondents.

For companies with less than five employees, except those engaged in oil and gas extraction or contract service operations, the Bureau of Mines supplied type of operation and commodity data based on its monthly and annual surveys. This information was supplied not only for operators with employees for which Census had a rather complete mailing list, but also for companies with no employees for which Census basic lists were incomplete. In order to provide the other necessary information for these small operators, special reports were collected by the Bureau of Mines for Census use which gave information on total payroll, total cost of supplies and energy used, cost of contract work, expenditures for purchased machinery, capital expenditures, and, for metal mining, value of shipments.

The Bureau of Mines played an important role in the development of the report forms in order to

minimize duplication of requested data and to assure at the same time that some comparable items were included by both agencies to relate the more detailed Bureau of Mines commodity data to the Census statistics. The Bureau of Mines also cooperated in the development of a comparison of the basic commodity statistics tabulated by the two agencies. This is shown in table 7 of the General Summary.

10. DEVELOPMENT OF THE MAILING LIST

The basic mailing list for the 1963 minerals census was developed as part of the mailing list for the 1963 censuses of business, manufactures, and mineral industries.

The Internal Revenue Service (IRS) maintains a comprehensive list of names and addresses of legal entities with one or more employees which are required to file quarterly tax returns under the Federal Insurance Contributions Act. To each of these legal entities, IRS has assigned a unique employer identification (EI) number. Arrangements were made to obtain this list of EI numbers for the selection of those companies which were to be included in the 1963 censuses of business, manufactures, and minerals industries. Since this list contained many companies outside the scope of the economic censuses, it was matched to a similar list of EI numbers maintained by the Social Security Administration. The SSA assigns an industry code to every EI number, based on information reported by the taxpayer when he applies for an EI number. Only those EI numbers with industry codes within the scope of the economic censuses were included in the basic mailing list.

This list of EI numbers provided the industry code necessary to select the correct report form and a payroll size code to determine whether a standard or a short form was to be mailed. However, the list was defective in one basic respect: The EI number applied to a legal entity and not to an individual establishment, the basic unit for which census data are required.

Therefore, it was necessary to supplement this list by contacting all known or possible multi-establishment companies in order to obtain a list of their individual establishments. In January of 1963, a precavass form, NCX-1A, Listing of Establishments, was sent to all companies that had indicated in the 1958 Census of Mineral Industries that they had more than one mineral establishment. In addition, all "apparent" single-establishment companies in the IRS-SSA file of EI numbers with sizable employment were included in this precavass.

For the known multiestablishment companies, the Census Bureau prelisted the establishments as they had been last reported to the Census Bureau. The company was requested to update this list by deleting abandoned operations, correcting addresses, reporting the current EI numbers used for each establishment, and adding any establishments operated but not already included in the listing. The EI numbers reported for these multiestablishment companies were excluded from the list of EI numbers obtained from IRS-SSA prior to mailing the 1963 Census Report Forms. Thus, the 1963 Census of Mineral Industries list for single-establishment companies was obtained from the IRS-SSA, but the list of establishments of multi-unit companies was obtained directly from those companies by a special precensus survey.

While the IRS-SSA list was generally adequate in providing sufficient industry and size information to determine the proper form for mailing, a number of the EI numbers did not have precise industry or size information associated with them. A special form, NCX-3, "General Report," was mailed to all such companies in the 1963 censuses of business, manufactures, and minerals industries. Since it was assumed that these establishments were quite small, only limited statistics were required. On the basis of the information reported, these establishments were coded and included in the basic tabulations. If the NCX-3 indicated substantial activity, the company was recontacted with a standard census form.

The supplementation of the census basic list for "no employees" establishments with Bureau of Mines lists was discussed in section 9. In addition, the lists for the crude petroleum and natural gas industry were supplemented by a precavass of oil and gas field service companies in order to obtain the names and addresses of companies served. About 4,000 names were added to the list of operators of oil and gas field properties on the basis of this survey.

11. COLLECTION AND PROCESSING OF REPORTS

The 1963 census report forms were distributed and returned by mail. The very large multi-establishment companies were mailed their report forms in November 1963, in order to give them as much time as possible to meet the substantial demands of the 1963 census on their statistical staffs. Report forms for the smaller companies were mailed in January 1964. Collection of all report forms was completed by August 1964. All

mailing and receiving, including the various reminder mailings, routine editing, coding, and card punching, was done at the Census Bureau's Operations Office in Jeffersonville, Ind. The more difficult problem reports and all reports from very large companies were sent to Washington for review prior to punching. The punched data were transmitted to Washington through a telephone computer linkup and all computer processing, review of the tabulated data, and the preparation of the publications were performed in Washington.

Throughout the survey, there was a concerted effort to assure completeness of coverage through systematic reminders at 4- to 6-week intervals (including the use of certified mail, telegrams and, for the larger companies, telephone calls).

Particular attention was devoted to assuring completeness and correctness of the reporting by large companies. In the early stages of processing, the individual establishment reports of the very large companies were reviewed along with the company summary report, Form NC-K1, to assure that the company had included reports for all its establishments and subsidiaries and that there was no duplication in reporting among manufacturing, minerals, central offices, and sales branches and offices. The NC-K1 was also a vehicle for the company to report changes in ownership since the Census precavass, was conducted in the preceding year. Accurate company affiliation information is necessary, it should be noted, to enable the Census Bureau to review the tabulations to assure confidentiality of the data and to provide statistics for the Enterprise Statistics program. Part 2 of Form NC-K1 required that the parent company reconcile its payroll figures by EI numbers filed with the Internal Revenue Service to those reported on the individual censuses of manufactures, business, and mineral industries reports. As a result of this comparison, omissions were detected, as was duplication in reporting within the Census establishment file.

All report forms were edited by the computer. The operating ratios for each establishment were developed and compared with industry averages developed from the 1958 Census of Mineral Industries. Large establishments with identifiable problems were listed for subsequent review by the Bureau's statisticians. Smaller establishments with problems were tentatively accepted or modified by the computer, but they were annotated for subsequent examination. In the review of the tabulations prior to the publication of the final reports, the selected operating ratios for all establishments were analyzed and the mean ratio for all establishments in each industry determined. A frequency distribution of establishments according to operating ratio class was prepared, and those establishments whose ratios were more than two standard deviations from the industry average were isolated as "outliers," examined and, if necessary, corrected. A similar type of analysis was made for the individual products shipped and the individual supplies consumed.

12. CENSUS REPORT FORMS

Only one report form was required, in general, for the operations of each establishment. The report forms used were adapted to the 50 industries classified in mining; 23 different establishment forms being provided for the 1963 minerals census. These included 16 standard forms used for all large and multiestablishment companies and 7 short forms used for small establishments. For the larger industries, the standard forms, requiring full census detail, were used only for establishments above a given size in terms of number of employees. For the numerous smaller establishments, typically having less detailed records and representing a very small portion of output and employment, data requirements were limited to a relatively few key items on a series of short forms differing principally in the preprinted lists of product class items in the shipments inquiry.

In general, short forms were used for companies with less than five employees. While the collection on short forms represented a small percentage of each industry's employment, value added, etc., they represented a much higher proportion of number of establishments. In the natural gas liquids and contract services industries (other than oil and gas), no short forms were used. (About 17,000 of the approximately 39,000 reports in the minerals census were tabulated from short forms.)

Standard Forms.—Each standard form called for the same general items regardless of the industry: Total employment; total payrolls; production, development, and exploration worker employment; man-hours of such workers by department (with some adaptation of department information); wages of such workers; supply costs; value of shipments and receipts; fuels and electric energy quantity and cost; capital expenditures by type; and horsepower of equipment used. However, the forms differed in the detailed inquiries on the quantity and value of products shipped and the quantity and cost of individual supplies used. The report form for crude petroleum and natural gas included inquiries on the number of wells operated, drilled, idle, purchased, etc., by type of well. For wells completed in 1963, data were collected on cost of drilling by broad cost category, and number and footage by type of well. In addition, special inquiries were adapted to other individual industries or industry groups. (Sample forms appear in appendix C.)

Short Forms.—These forms, designed for small establishments, as noted above, were abbreviated versions of the standard forms and requested limited general and product information. For example, only total employment and payroll figures were requested, without detail by functional class (production workers and all other employees); production-worker man-hours and wages were not requested on short forms.

For oil and gas extraction, two short forms were used—one for operators of oil and gas field properties and one for contract services. The other short forms tabulated—one for metal mining, one for coal mining, and three for nonmetallic minerals mining—were composites of forms furnished to the

Bureau of Mines for the tabulation of its type of operation and commodity data and the reports which that Bureau collected for small operators for Census use. (See sample in appendix C.)

Form for Separate Central Administrative Offices and Auxiliaries of Mining Companies.—Separate reports for each central administrative office and auxiliary unit (storage warehouses, research laboratories, garages, repair shops, etc.), which served the mining establishments of the company rather than the general public, were obtained from the company if they were at locations different from the establishments served or if they serviced more than one establishment. The report form included inquiries on payrolls and employment. Approximately 800 such mining reports were tabulated in 1963. They accounted for about 46 thousand employees with payrolls of about \$417 million, which represent 7.5 percent and 11.1 percent, respectively, of the totals for all mining.

The employment and payrolls for these separate administrative offices and auxiliaries are included in the industry and State totals, unless otherwise specified. The employment and payrolls of such administrative offices and auxiliaries are also shown separately as tables 4 and 5 of the summary chapter, Employment and Related Statistics.

A special form for offshore oil and gas operations.—This form was required for each State in which a company performed such operations.

A special form for control purposes was also provided to summarize value of shipments and receipts and cost of drilling and equipping wells, reported by State and district, by operators of oil and gas field properties.

Form NC-K1, Company Summary Report Form.—This form requested consolidated company information on payrolls, employment, sales or receipts, inventories, capital expenditures, value of assets, and rental payments. It was restricted to companies with 250 or more employees in the industries included in the economic censuses.

Based on information filed on the establishment reports of the multiestablishment companies, the entire company was classified into 1 of 179 enterprise categories developed by grouping the Standard Industrial Classification industries. A special report, entitled "Enterprise Statistics, 1963, Part I, General Report on Industrial Organization," provides tables showing the characteristics and diversification of these multiestablishment companies as derived from the information reported on census establishment reports.

13. ESTABLISHMENT LOCATION AND COMPANY CHARACTERISTICS

Information was obtained on all 1963 report forms regarding the physical location, Social Security employer identification number, company affiliation, and legal form of ownership. This information was necessary to assure control over the completeness of coverage (see Section 10, Development of the Mailing List), while permitting, at the same time, the classification of each establishment by precise geographic location and type of organization.

II. EXPLANATIONS OF TERMS USED IN COLLECTION AND PUBLICATION OF DATA

14. TYPE OF OPERATION

The type of operation statistics in industry reports are primarily based on replies to a check-box inquiry which listed the usual mining and mineral preparation methods used in a particular industry. The respondent was asked to check each method used in the establishment reported. Wherever possible, separate statistics are provided on establishments using underground mining methods, using a combination of underground and open-pit methods, and using open-pit methods only. For selected industries, separate statistics are provided by type of underground mining, such as for establishments having as the dominant method open stoping, shrinkage stoping, square setting, or block caving. Separate figures are provided, where possible, for mines with and without preparation plants, and for establishments with preparation plants classified by the dominant preparation method, such as crushing, washing, flotation, or gravity concentration. Separate statistics are also provided on producing and nonproducing operations (an establishment being defined as nonproducing if

no mineral products were shipped during the year). For the crude petroleum and natural gas industries, details were obtained on the type of wells drilled and operated and reports were classified on the basis of whether they represented oil wells only, both oil and gas wells, or gas wells only, and on the basis of whether or not they included drilling.

The distribution of principal types of operation by major industry groups is indicated in table F.

15. OPERATING COMPANIES

For the purpose of this census, an operating company is defined as a corporation, individual proprietorship, partnership, cooperative, or other organization, regardless of size, directly engaged in production or development activities at one or more mineral establishments. An operating company may own the property operated or be the lessee of such property or operate for the account of others on a contract or fee basis. Regardless of the number of establishments operated by a company or the number of States in which it operates, the company is counted only once in summary statistics. Hence, the sum of the detailed statistics for number of operating companies is usually greater than the statistics shown for group totals.

Table F. EMPLOYMENT AND VALUE ADDED FOR MINERAL INDUSTRIES, EXCEPT SERVICE INDUSTRIES, BY TYPE OF OPERATION AND MAJOR INDUSTRY GROUP: 1963

| Major industry group | Producing establishments | | | | | | | Non-producing establishments |
|---|-------------------------------------|----------------|---|-------------------------------|----------------|---|--|------------------------------|
| | Mines only | | | Mines with preparation plants | | | Separately operated preparation plants | |
| | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | | |
| All mineral industries..... | 45.8 | 19.7 | 152.4 | 96.9 | 116.7 | 23.2 | 26.5 | 4.8 |
| Metal mining..... | 8.0 | 6.8 | 3.3 | 23.4 | 19.2 | 0.9 | 6.8 | 2.0 |
| Anthracite mining..... | 2.5 | 0.9 | 0.6 | 0.7 | 0.7 | 3.5 | 1.2 | 0.0 |
| Bituminous coal and lignite mining..... | 34.6 | 5.2 | 3.2 | 62.0 | 11.8 | 8.9 | 2.7 | 0.1 |
| Oil and gas extraction. | - | - | 143.2 | - | - | - | 13.9 | 2.1 |
| Nonmetallic minerals mining..... | 0.7 | 6.8 | 2.1 | 10.8 | 85.0 | 9.9 | 2.0 | 0.6 |
| | Value added in mining (\$1,000,000) | | | | | | | |
| All mineral industries..... | 417 | 326 | 9,205 | 1,309 | 2,031 | 344 | 1,014 | (1) |
| Metal mining..... | 136 | 157 | 31 | 338 | 560 | 18 | 160 | (1) |
| Anthracite mining..... | 23 | 13 | 7 | 4 | 10 | 40 | 14 | (1) |
| Bituminous coal and lignite mining..... | 250 | 84 | 43 | 776 | 257 | 137 | 41 | 0.6 |
| Oil and gas extraction. | - | - | 9,050 | - | - | - | 763 | (1) |
| Nonmetallic minerals mining..... | 8 | 73 | 74 | 191 | 1,204 | 150 | 36 | (1) |

¹Not shown since the cost of supplies, purchased fuel and electric energy, contract work, and purchased machinery installed exceeds the value of shipments and receipts plus capital expenditures.

The number of operating companies is shown for each industry in table 1 of the industry reports, with comparable figures for earlier years. In table 12 of the industry reports, the number of operating companies is distributed by number of establishments operated by each company within an industry, with an indication of the size of establishments operated by companies in each class.

16. PERSONS ENGAGED IN MINING

The employment statistics represent all full-time and part-time employees at the establishment who worked or received pay for any part of the pay period which included the 12th and ended nearest the 15th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacation during these pay periods. Also included are miners paid on a per ton, car, or yard basis. Excluded are employees at the mine who were on the payroll of another employer (such as employees of contractors) and employees at company stores, boarding houses, bunk houses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the rolls but not working during the period. Officers of corporations are included as employees, but proprietors and partners of unincorporated firms are excluded.

This total employment is divided into two functional classifications comparable with the basic classifications used for the manufacturing industries. Mining companies were instructed to report these two employee classifications as follows:

Production, development, and exploration workers.—Employees up through the working foreman level engaged in manual work, using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards. Included are exploration work, mine development, storage, shipping, maintenance, repair, watchmen services, auxiliary production for use at establishments (such as power plant), record-keeping, and other services closely associated with these production, development, and exploration operations at the establishment covered by the report. Gang and straw bosses and foremen who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis, the men engaged by them and paid out of the total amount received by these miners, and other employees at the establishment but not on its payroll, if paid directly through its own employees, such as superintendents and foremen. Supervisory employees above the working foreman level are excluded from this category.

All other employees.—Nonproduction personnel at the establishment above the working foreman level engaged in such activities as supervision, sales, highway trucking (by employees not entering mines or pits), advertising, credit collection, clerical, and routine office functions, executive, purchasing, finance, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities.

Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant who are utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here, but are classified as production, development, and exploration workers.)

Employees at an office located at or near the mining establishment are usually included in the mine report. Where such offices or auxiliary units were reported separately, their employees are included in the totals for individual industries and the State tables for each industry, but are not always classified by type of operation or by frequency class in frequency tabulations. These figures, classified by industry and State, are also shown separately in the summary chapter, Employment and Related Statistics. This practice differs from that used in the census of manufactures, in which employment at central administrative offices and auxiliary units were included in total manufacturing but not in individual industries.

In the mineral industry reports, besides these statistics on two types of employment, figures are shown on the total number of proprietors and firm members, and separately on the number of these who regularly performed production, development, or exploration work.

17. MONTHLY AND AVERAGE EMPLOYMENT

The 1963 report forms requested employment figures for "production, development, and exploration workers" for four selected pay periods (midmonth employment in March, May, August, and November). For "all other employees," only a mid-March figure was requested. The "annual average" is composed of an average of the four monthly figures for production, development, and exploration workers plus the March figure for "all other employees."

This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods approximates very closely for almost all industries the average employment for the year that would be obtained from 12 monthly pay periods.

The employment averages shown in this report for all industries are based on the four-month figures described above. However, many of the mineral industries are highly seasonal. For such industries, figures on production, development, and exploration workers were collected for all 12 months and are shown in table 3 of the industry chapters.

The average employment for mines, based on 4 or 12 monthly figures, is generally comparable with employment statistics compiled for manufacturing and mining by other government agencies, but is lower than the measure used in annual accident and other reports to the Bureau of Mines. The latter measure represents the "average number of employees on active days," excluding shutdown periods. Such averages generally exceed the average for 12 months, sometimes by as much as 25 percent.

18. PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS

The total man-hours figures represent all man-hours of production, development and exploration workers (as defined in section 16) worked on both active days, during which there was production or development work, and inactive days, when only watchmen, inspectors, repairmen, and other maintenance men were on duty. They include all man-hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the mine. Included are actual overtime hours, not straight-time equivalent hours. Man-hours of working proprietors are excluded.

The Census Bureau man-hour figures differ from those published monthly by the Bureau of Labor Statistics, covering all hours paid for, whether worked or not, and relate only to the payroll period ending nearest the middle of each month. They differ from man-hours collected by the Bureau of Mines which include data for all employees classified as exposed to accidents, rather than data for only production, development, and exploration workers.

Census man-hour figures were collected separately by department, such as for work in underground mining and development, in open-pit mining and stripping, at surface shops and yards for the mine, and at preparation plants (including auxiliary works for these plants). For the oil and gas industries, separate figures were obtained for operating and maintaining wells, for drilling wells and rig building, for exploration work, and for other work. A separate figure was also obtained on man-hours devoted to development and exploration work and charged to capital or depletion accounts.

Man-hours were well reported for the larger establishments, although the distribution by department was inadequately reported in some instances. Where total man-hours or the distribution by department were not reported and it was not feasible to obtain the information by correspondence, the data were estimated. Moreover, man-hours were not collected for those very small establishments that were mailed special short forms (see section 12). Experience has shown that these small establishments have difficulty in distinguishing between production and other types of employees. Man-hours were estimated for such establishments as well as for other nonreporters. Since the estimating was largely confined to small establishments, there is no significant qualification to the validity of overall industry, geographic, and department totals for man-hours, except for a few industries characterized by small establishments. However, the man-hour figures for establishments with fewer than 5 employees, shown in the size of establishment tables, should be interpreted with this factor in mind.

19. PAYROLLS FOR THE YEAR

This item represents the gross earnings paid in the calendar year 1963 to all employees on the payroll of mining establishments, and is comparable with the definition of payrolls used for the Federal

withholding tax. It includes all forms of compensation, such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. Included are payments to miners paid on a per ton, car, yard, or footage basis. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern. It excludes payments to members of the Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work charged to employees and deducted from their wages.

The 1963 census definition of payrolls is that recommended to all Federal statistical agencies by the Bureau of the Budget, and is the same as that used for 1958. It should be noted that it does not include employers' Social Security contributions or other nonpayroll labor costs, such as employers' pension plans, group insurance premiums, and workmen's compensation. It should be noted also that these payrolls include wages paid employees of the establishment for development and construction work which would be charged to the capital account.

As in the case of employment figures, the payrolls of separately reported offices and auxiliary units are included in the industry and State tables, and are also shown separately by industry and State in the Summary Chapter, Employment and Related Statistics.

20. SUPPLIES AND RELATED COSTS, CONTRACT WORK, AND PURCHASED MACHINERY

The 1963 census report forms requested information on supplies, fuels, and electric energy used; on contract work done by others; and on purchased machinery installed for each establishment. These items included charges to both the current and capital accounts. The figures reported were to include items used during 1963 whether purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the items are included. Where the company's records did not show actual amounts used, they were asked to approximate use by adding purchases (or receipts) during the year to opening inventory and subtracting closing inventory.

Separate figures were obtained for (a) selected supplies for some industries; (b) the value of minerals received for preparation (see section 22); (c) the amount paid for electric energy purchased; (d) the amount paid for all purchased fuels used for

heat, power, or the generation of electricity; (e) the cost of contract work done by others; (f) the cost of products bought and resold in the same condition; and (g) the cost of purchased machinery installed. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, were included, as were supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment (see section 19). No data were obtained on such costs as advertising, insurance, telephone, and research and consulting services of other establishments; or on overhead costs, such as depreciation charges, rent, interest, and royalties.

Under contract work, companies were instructed to report the total amounts paid or due for contract services performed during the year, including payments for supplies and equipment incidental to this work which were furnished by the contractor. If part of the payment to contractors was in materials produced, the respondent was asked to estimate the value of the service performed. However, payments to miners paid on a per ton, car, yard, or footage basis were included under payrolls rather than under contract work (see section 19).

Under purchased machinery, companies were instructed to report all machinery, equipment, and parts for renewals and repairs, including equipment installed in the mine or mill as well as mobile loading and transportation equipment.

21. SPECIFIC SUPPLIES USED

In the 1963 minerals census, uniform quantity and cost data were obtained on the use of selected supplies. In most cases, comparable statistics on these items are available for 1958 and 1954. Collection of the supplies data was coordinated with the expanded manufactures statistics program for the 1963 census, which obtained data on over 300 materials for industries that accounted for 90 percent or more of their consumption in manufacturing.

For the minerals census, data on the quantity and cost of explosives and steel mill shapes and forms used were obtained for the metal and coal mining industries. In addition, data were obtained for the coal mining industries on the cost of round and hewn woods products and stumpage. For the oil and gas extraction industries, data were obtained on the quantity and cost of both gas (purchased for gas lift and repressuring) and steel mill shapes and forms used.

22. MINERALS PREPARED

On report forms for almost all mineral industries, except the contract services industries, a uniform inquiry was included on minerals prepared at the reported establishments. Figures were obtained on minerals prepared from three sources: (a) Crude minerals mined at the establishment (quantity); (b) crude minerals received from other establishments of the company or purchased from others (quantity and cost); and (c) crude minerals received for preparation on a custom or toll basis (quantity and estimated value).

23. CAPITAL EXPENDITURES

In the 1963 census, mining companies were asked to report expenditures made during the year for development and exploration of mineral properties, for new construction, and for machinery purchased at their operations that was chargeable to fixed-assets accounts of the mining establishment and were of a type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1963 were to be determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures were to include work done on contract as well as by the mine forces. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as those for additions to capacity. Excluded from such expenditures totals are costs of maintenance and repairs charged as current operating expense. Also excluded are expenditures for land and mineral rights.

Wherever applicable, separate figures were provided on expenditures for (a) development and exploration of mineral property, (b) preparation plant construction and other construction, (c) new machinery and equipment, and (d) used plant and used equipment acquired from others. The 1958 and 1954 minerals censuses included comparable statistics. For 1939, data were obtained separately on (b), (c), and (d). For 1929 and 1919, data were obtained on (a).

The census figures for capital expenditures differ from estimates published on the basis of the Office of Business Economics-Securities and Exchange Commission sample survey not only because of the sampling variations but also, to a greater extent, because of the differences in scope of the surveys. Whereas census figures cover all mining establishments, but exclude all establishments of reporting companies which are not classified in the mineral industries, the OBE-SEC figures are based on reports for an entire company, classified on the basis of its principal activities. For this reason, many large metal mining and oil and gas establishments, for example, are included in the OBE-SEC tabulations as part of manufacturing. Both series, however, exclude expenditures at establishments owned by Federal or State governments but operated under lease or contract by private companies.

24. INDIVIDUAL PRODUCTS

In the 1963 Census of Mineral Industries, information on output of about 225 individual mineral product items was collected. This number of items was about the same as that collected for 1958, but it represented a reduction from about 760 individual products included in the 1954 minerals census when joint forms with the Bureau of Mines were used.

In general, the 1963 and 1958 minerals censuses figures were confined to separate totals for each crude and each prepared mineral. Where signi-

ficant, separate shipments figures were also obtained for crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments include commercial shipments and transfers of products to other operations of the same company. For products which are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production or separate data on production for such uses were collected. Typically, production was also collected for products for which there are usually significant differences between total production and total shipments as a result of stock changes.

For service industries, the amount received or due for services performed during 1963 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total "value of shipments and receipts" for each establishment.

Table 6A of each report for individual industries provides the national and regional total shipments from all industries for each of the products primary to the industries covered in the report. Table 5 provides separate totals for the value of primary products of each industry shipped by the primary industry and the amount shipped by other industries.

25. INDEXES OF PRODUCTION AND UNIT VALUE

Based on the type of quantity and value statistics shown in table 6A of the industry chapters, indexes of production and unit value (value of shipments divided by quantity of shipments) have been constructed for the primary products of the industry produced or shipped by all producers, including those in other industries. These indexes are shown in table 6B of the industry chapters. The 1958 unit values were used as weights in construction of a weighted aggregative production index. A unit-value index, weighted by quantity of production or shipments, was also constructed. The latter index was used, where necessary, to deflate value of shipments of products for which no quantity data were available. The indexes for all primary products combined are net indexes and exclude the production of crude minerals used to produce prepared minerals.

A special census report will be issued in cooperation with the Federal Reserve Board on Indexes of Production, consolidating the information shown in the 6B tables into group and total indexes and discussing in some detail the objectives and methodology of the indexes and the data problems and limitations. That report will contain revisions of the table 6B indexes where necessary.

26. SHIPMENTS, PRODUCTION, CUSTOM MILLING, AND NET SHIPMENTS

Shipments figures include all products physically shipped from the establishment during 1963, including material withdrawn from stockpiles and products shipped on consignment, whether or not

sold in 1963. Prepared material or concentrates include preparation from ores mined at the same establishment, purchased received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, the company was requested to include, in addition to direct costs of production, a reasonable proportion of company overhead and profits. All values were requested f.o.b. the establishment reported.

The figures for "value of shipments and receipts" of an industry include, for all establishments classified in the industry, (a) the value of all "primary" products of the industry, (b) the value of "secondary" products which are primary to other industries, (c) the receipts for contract work done for others (except custom milling), and (d) the value of products purchased and resold without further processing. Receipts for custom milling are omitted from this total and shown separately to avoid duplication with the value of custom milled ores included in (a) or (b).

For industry and industry group totals, some duplication is introduced by the inclusion of materials transferred from one establishment to another for mineral preparation. In general, where this duplication is significant, figures are shown both for "gross" and "net" shipments. The net shipments are obtained by subtracting the value of crude minerals transferred to other establishments for preparation from the gross shipments. Wherever value of shipments is shown without further specification, it represents gross shipments.

For years prior to 1954, data on shipments were not collected. Instead, the report forms requested data on the quantity and value of production. In general, the data for these years were edited to represent net production, excluding duplications due to mining and later preparing the same material in the same industry.

Another source of duplication in the industry totals, for value of shipments, particularly in the major group totals, is the inclusion of the cost of contract work performed by one establishment for another as well as the value of products produced by the assistance of this contract work. Only part of the contract work performed during a given year, however, results in production during that year. Another significant portion results in capital additions to the industry. It was not possible to segregate these two types of contract work in the census tabulations and the exclusion of all receipts for contract work in a computation of net shipments must be considered an over adjustment. Of the types of contract work classified in the mining services industries, only contract mining of minerals and contract pumping of wells would always warrant deduction as duplication in the value of shipments totals, and these items amounted to only 3 percent of the total receipts for contract work by minerals establishments in 1963.

A third element of duplication in the total value of shipments for all mineral industries and the major group totals for the fuel producing in-

dustries, is the transfer of coal and natural gas from one mining establishment to another for use as power or heat. The total value of such fuels transferred in 1963 for use in all mineral industries, however, was only \$76 million, or less than 0.4 percent of the gross value of shipments for all mineral industries.

Table G shows, for major industry groups, gross shipments and two approximate computations of net shipments; the first, adjusted only for the transfer of minerals from one establishment to another for preparation and for purchases for resale without preparation, and the second, adjusted also by exclusion of all receipts for contract work. This second adjustment, for the reasons indicated above, is made only in table G of the 1963 census reports.

27. VALUE ADDED IN MINING

For 1963, 1958, and 1954, this measure is computed by subtracting the cost of supplies, minerals received from other establishments for preparation, purchased fuels and electric energy, contract work, and purchased machinery installed from the value of shipments and receipts and capital expenditures. This statistic avoids the duplication in value of shipments which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production, but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

"Value of shipments and receipts," used in this calculation, includes the shipments of all products of the mining establishment, together with receipts for work done for others. "Capital expenditures" includes expenditures for development of mineral properties as well as for new construction and major alterations of preparation plants and other structures and expenditures for new and used machinery and equipment. The "costs" used in this calculation include costs charged to both the current and capital accounts. Both the shipments and costs figures include products bought and resold in the same condition.

For 1939 and earlier years, comparable data are not available for capital expenditures or for costs of capitalized supplies and equipment. However, a rough measure of value added in mining is computed for these years by subtracting from the value of shipments and receipts the cost of supplies, minerals received for preparation, fuels, purchased electric energy and contract work.

Value added in mining differs from "national income originating in mining," as presented in the national income estimates compiled by the Office of Business Economics, Department of Commerce. The latter measure is the sum of factor costs incurred by an industry in production. It excludes, in addition to cost of materials, such costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from other economic sectors, such as contract services classified in other sectors, services of engineering and management consultants, advertising, telephone and telegraph expenses, insurance, royalties, etc. It is, therefore, a more "net" concept for value added in mineral production than that used in the minerals census. On the other hand, the OBE figures do not include a measure of value added in development of mineral properties.

28. ENERGY USED

The 1963 Census of Mineral Industries obtained data on the quantity and cost of fuels and electric energy used in mining which are comparable, in general, to such data obtained in the 1958, 1954, 1939, 1929, and 1919 censuses. Separate quantity and cost figures were provided on purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy. A cost figure was obtained for other fuels. The breakdown between distillate and residual fuel oil for 1963 is being published for most industries for the first time; the gasoline figures were collected for the first time since 1939.

To supplement the data on energy and energy materials purchased, data were obtained on the quantity of such items produced and used at the same establishment. In the minerals census, such

Table G. GROSS AND APPROXIMATE NET SHIPMENTS, BY MAJOR INDUSTRY GROUP: 1963

| Industry group | Gross shipments (million dollars) | Net shipments (million dollars) | |
|---|--------------------------------------|--|--|
| | | Adjusted for transfer of minerals ¹ | Adjusted for transfer of minerals and for contract work ¹ |
| All mineral industries..... | 21,621 | 18,804 | 16,964 |
| Metal mining..... | 2,128 | 1,836 | 1,800 |
| Anthracite mining..... | 237 | 172 | 156 |
| Bituminous coal and lignite mining..... | 2,396 | 2,101 | 2,075 |
| Oil and gas extraction..... | 14,512 | 12,423 | 10,686 |
| Nonmetallic minerals mining..... | 2,347 | 2,273 | 3,247 |

¹Adjusted also to exclude duplication of minerals transferred to other establishments in the same industry for resale without preparation.

data were obtained on coal, crude petroleum, and natural gas used at the producing establishment for power and heat; and on electric energy generated and used at the same mining operation. For electric energy, the figures actually collected represented total quantity generated (excluding generating-station use) and quantity of electric energy generated and sold. The difference between these two quantity figures represented electric energy generated and used.

Experience, based on past censuses, indicates that the major portion of the information compiled on detailed fuels is reported by relatively large establishments. For this reason, inquiries on fuel detail were not directed to establishments reported on short forms. As a result of these limitations and because of some incomplete reporting, a total of \$42 million was tabulated as "undistributed" fuels costs, amounting to approximately 14 percent of the total fuels cost tabulated for 1963.

In order to provide total figures for energy used by industry, geographic area, and type of operation, the energy figures were reduced to a common unit of measure representing kilowatt-hours, the international unit of energy. These figures include an estimated kilowatt-hour equivalent for "other fuels" for which only "cost" was reported and for the "undistributed" fuels cost. The conversion factors used in computing these kilowatt-hour equivalents are as follows:

| | | | |
|------------------------------------|-----------|---|-----------|
| Coal..... | .1 ton | = | 7,677 kwh |
| Crude petroleum..... | .1 barrel | = | 1,700 kwh |
| Gas..... | .1 MCF | = | 307.7 kwh |
| Gasoline..... | .1 gallon | = | 36.4 kwh |
| Distillate fuel oil..... | .1 barrel | = | 1,707 kwh |
| Residual fuel oil..... | .1 barrel | = | 1,842 kwh |
| Other fuels and undistributed..... | \$.1 | = | 243 kwh |

29. POWER EQUIPMENT

Totals for prime movers and electric motors are shown separately. The horsepower ratings for prime movers include information for such types of power equipment as internal combustion engines, steam and hydraulic turbines, and reciprocating steam engines. The totals for prime movers are further separated between those used for driving electric generators and those used for other purposes. The statistics for prime movers not driving generators include data for highway-type automobiles, trucks, and other equipment, but figures for such equipment are also shown separately. For 1963, as for 1954 (the last census in which horsepower data were collected), separate figures were obtained on "loading equipment," "transportation equipment," and "all other equipment" for all industries except oil and gas extraction. Under loading equipment are included such items as power shovels, dragline excavators, and scrapers for use underground or on the surface. Transportation equipment includes locomotives, tractors, trucks, and shaft hoists. Other equipment includes drills, compressors, machine tools, pumps, and preparation plant machinery.

The aggregate horsepower figure represents the unduplicated horsepower for total equipment available for use, and provides a measure of the mechanical power available in mining establishments. The figure is derived by adding together the horsepower of prime movers and of electric motors driven by purchased electric energy. To secure the latter figure, the total horsepower for electric motors was distributed, by establishment, into two categories: Motors driven by purchased electric energy and motors driven by energy generated at the establishment. For establishments which both generate and purchase electricity, the total horsepower for electric motors was prorated on the basis of the ratio of the net quantity purchased to the net total for electric energy used.

As in past censuses, respondents were requested to report horsepower of standby equipment as well as equipment in operation at the end of the year, including all prime movers and motors in both mobile and stationary equipment.

30. RELATION OF LABOR COSTS TO OUTPUT

Three analytical tables are included in the report to relate labor requirements to output measures:

(1) Table 8 of the industry chapters shows general statistics for establishments classified by output per man-hour, with output generally measured in physical units (such as tons of coal) of shipments of the primary products of the industry. Where feasible, the distribution by output per man-hour is shown separately for major types of operation, since it differs significantly for open pits as compared with underground mines, and for a mine only, a mine and plant, and a plant only. Meaningful ratios of output per man-hour could not be computed when a significant portion of the production resulted from the work of proprietors or contractors for whom man-hours figures are excluded, or where a significant portion of the man-hours of workers was spent in development or exploration work. Such operations were included as "unclassified."

(2) Table 9 of the industry chapters shows general statistics for establishments classified by the ratio of payroll of all employees to value added in mining. This distribution was shown by geographic divisions insofar as feasible.

(3) Table 10 of the industry chapters shows a frequency distribution of establishments by classes of value added in mining per employee, by employment size of establishment.

In comparing labor costs with value added in tables 9 and 10, it should be noted that value added as here computed includes many expenses for which no separate data were obtained in the 1963 minerals census, such as taxes, royalties, interest paid, and nonpayroll benefits to employees.

One of the most striking developments in the mineral industries in recent years has been the rapid decline in labor requirements associated with

Table H. VALUE ADDED PER MAN-HOUR, ENERGY USED AND AGGREGATE HORSEPOWER PER PRODUCTION WORKER, BY MAJOR INDUSTRY GROUP: 1963

| Industry group and year | Value added per man-hour (dollars) | Energy used per production worker (1,000 kwh equivalent) | Aggregate horsepower per production worker |
|--|------------------------------------|--|--|
| All mineral industries.....1963.. | 16.35 | 906 | 110 |
|1958.. | 12.39 | 717 | (NA) |
|1954.. | 9.23 | 576 | 63 |
| Metal mining.....1963.. | 11.29 | 513 | 98 |
|1958.. | 8.66 | 384 | (NA) |
|1954.. | 6.36 | 262 | 63 |
| Anthracite mining.....1963.. | 6.17 | 261 | 68 |
|1958.. | 5.33 | 194 | (NA) |
|1954.. | 4.08 | 218 | 46 |
| Bituminous coal and lignite mining....1963.. | 7.38 | 135 | 53 |
|1958.. | 6.03 | 91 | (NA) |
|1954.. | 4.36 | 77 | 32 |
| Oil and gas extraction.....1963.. | 27.73 | 1,716 | 147 |
|1958.. | 20.52 | 1,451 | (NA) |
|1954.. | 15.61 | 1,211 | 90 |
| Nonmetallic minerals mining.....1963.. | 8.20 | 574 | 115 |
|1958.. | 6.79 | 501 | (NA) |
|1954.. | 5.49 | 451 | 79 |

(NA) Not available.

a rapid increase in energy and horsepower use while production, in general, increased. Table H shows value added per man-hour for the last three census years, by major industry group, as compared with energy used per production worker and aggregate horsepower per production worker.

III. SPECIAL REPORTS AND PROCEDURES

31. SPECIAL REPORTS SHOWN IN VOLUME I, SUMMARY AND SUBJECT STATISTICS

In Volume I, there are several special summary reports on size of establishments, type or organization, employment and related statistics, type of operation, power equipment, fuels and electric energy, supplies used, and water use. Most of these subjects are merely summarizations or special compilations of data reported on the standard census forms and presented in the industry or area chapters.

The following chapters, which are recombinations of basic data reported on the census of mineral industries report forms, should be noted.

Size of Establishment.—Each establishment in the census is coded, not only by industry and geographic location, but also by its size, based on the average number of employees for the year. These size tabulations provide significant insight into the variations in operating ratios among plants within an industry and between industries. Information on the number of establishments, employment, payrolls, value added, value of shipments, and capital expenditures is presented for 10 employment size classes in each industry in Volume I, table 4, of the industry chapters, and in chapter 2 of the Summary reports.

Type of Organization.—Multiunit and single-unit establishments—Information on whether plants are independent or part of multiestablishment companies contributes significantly to knowledge of the structure of mining in the United States. The proportion of value added in mining accounted for by multiunit establishments has grown somewhat since 1954, but the employment proportions has not. (See table I.)

Legal Form of Organization.—Each establishment was asked to report the forms of organization of the company which operated it (e.g., corporation, partnership, proprietorship, cooperative). In chapter 3, Volume I, selected general statistics are shown for each 4-digit industry in each of these forms of business organization. Cooperatives are combined with "other" forms of business organization to avoid the disclosure of information for individual companies. In mining, about half the establishments are operated by corporations, but these establishments account for about 89 percent of value added in mining.

TABLE I. MULTIUNIT ESTABLISHMENTS AS A PERCENTAGE OF TOTAL MINING

| Year | Employees | Value added in mining |
|-----------|-----------|-----------------------|
| 1963..... | 67 | 86 |
| 1958..... | 69 | 82 |
| 1954..... | 67 | 79 |

32. IMPUTATION OF DATA

Short forms were used to obtain information for about 17,000 small establishments. In these forms less detail was obtained on selected items, such as employment, cost of supplies, fuels, electricity, and on the status of wells and drilling costs for oil and gas operations. Certain items were omitted entirely, such as man-hours.

To obtain industry totals, estimates were prepared for detail omitted for such establishments on the basis of information reported on long forms for similar operations.

Imputation of missing items was made feasible by use of the Census Bureau's high-speed electronic computer. The procedures for imputation were of two types. For short-form respondents, production, development, and exploration workers and their wages were imputed from fixed ratios specified in advance from historical relationships of these items to total employees and total payroll. For other items (e.g., capital expenditures), the imputation was made on the basis of historical relationships of the items to value of shipments or other factors.

For industries characterized by large establishments, the percentage of imputation of general measures such as employment and payrolls, cost of supplies, expenditures, and the like is very small; for industries in which small establishments account for a large portion of the totals, imputations may amount to 10 percent or more.

33. CONFIDENTIALITY OF DATA FOR INDIVIDUAL COMPANIES

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1963 census, as in previous censuses, precedence was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over counties. In tables showing industry detail, major industry group (2-digit) totals were given precedence over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries.

Such order of precedence was used because (1) it was considered preferable to show regional data for an industry, even at the cost of withholding data for another (usually the least important) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category, as was frequently done in the 1939 and earlier censuses; and (2) by giving precedence to industry group statistics over individual industries within each State, the extent to which individual statistics can be compared within the SIC industry classification framework is greatly increased.

For each State not shown separately in table 2 of the industry chapter, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees and the employment data represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 50 employees, in general, are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State if the publication of such statistics would disclose information for individual companies. In table 4 of that Volume, however, the number of establishments, distributed by employment size, is shown for every county by 3-digit industry group.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions, in order to show all establishments by some geographic grouping. For this purpose the following combinations of Census divisions have been used:

| | |
|--------------------|--------------------|
| NORTHEAST | SOUTH |
| New England | South Atlantic |
| Middle Atlantic | East South Central |
| | West South Central |
| NORTH CENTRAL | WEST |
| East North Central | Mountain |
| West North Central | Pacific |

34. ABBREVIATIONS

The following abbreviations and symbols occur frequently in tables and footnotes:

| | |
|--------|---|
| - | Zero |
| X | Not applicable |
| NA | Not available |
| n.e.c. | Not elsewhere classified |
| kwh | Kilowatt-hours |
| D | Withheld to avoid disclosing figures for individual companies |
| SIC | Standard Industrial Classification |

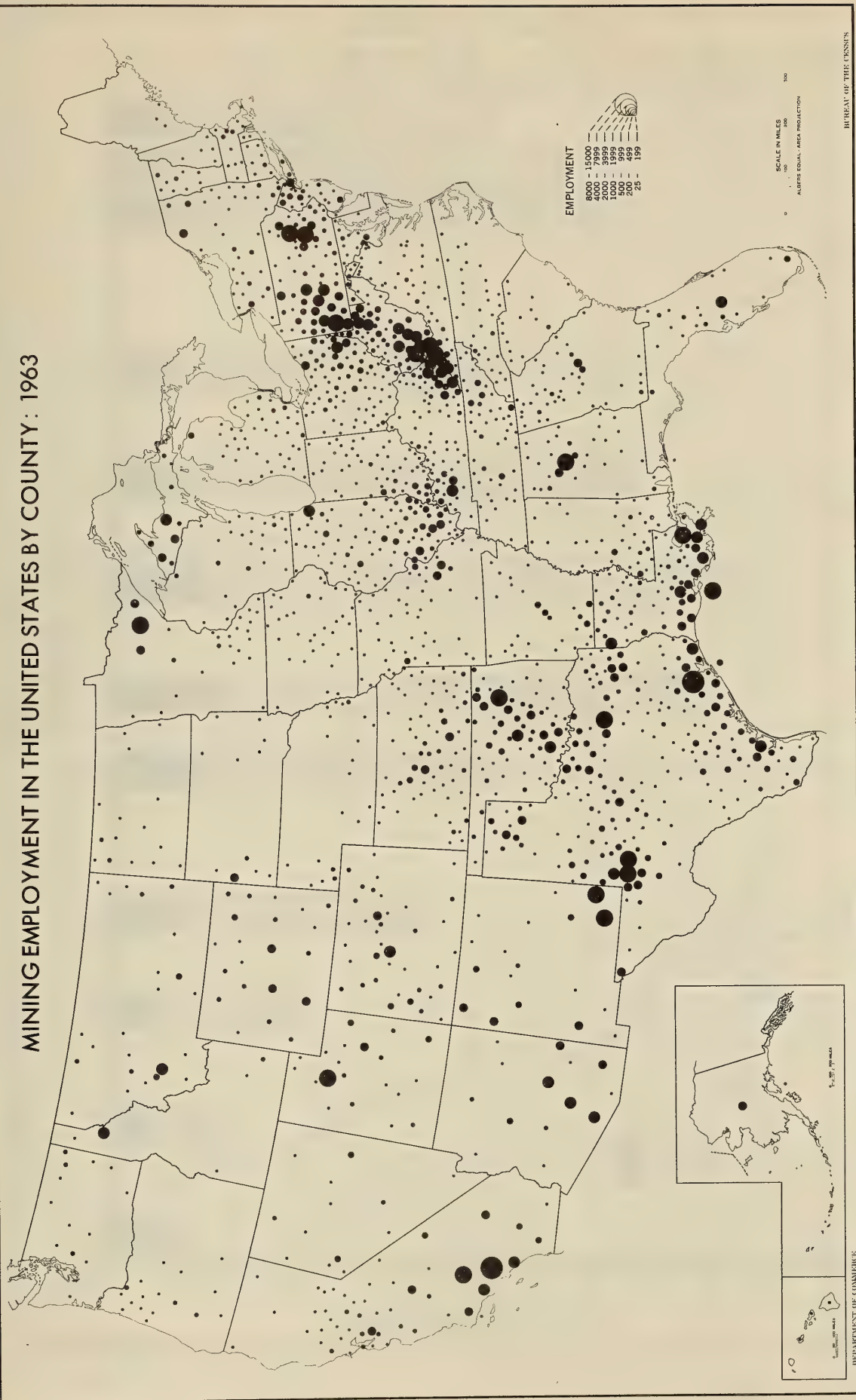
Other abbreviations, such as lb. and bbl., are used in the customary sense. Where the term "tons" is used alone, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons."

Charts and General Summary Tables

| | page |
|--|--------|
| CHART 1 Mining Employment in the United States by County: 1963 | 21 |
| 2 Mining Employment in the United States: 1860-1963 | 22 |
| 3 Payroll, Capital Expenditures, and Value Added in Mining: 1880-1963 | 23 |
| 4 Employment, Horsepower, and Production in Mining: 1902-1963 | 23 |
| 5 States Ranked by Value Added and Employment in Mining: 1963 | 24 |
| 6 Value Added in Mining, by States: 1963 | 25 |
| 7 Payroll in Mining, by States: 1963 | 26 |
| 8 Capital Expenditures in Mining, by States: 1963 | 26 |
| 9 Value Added per Mining Employee, by States: 1963 | 27 |
| TABLE 1 General Statistics: 1963 and Earlier Years | 28 |
| 2 Detailed Statistics by Industry Group and Industry: 1963 | 30 |
| 3 Selected Statistics by Geographic Area: 1963 | 36 |
| 4 Selected Statistics by Major Industry Group and Industry: 1963 and Earlier Years | 40 |
| 5 General Statistics by Geographic Area: 1963 and Earlier Years | 54 |
| 6 Industry Shipments and Receipts and Net Shipments of Primary Products: 1963 | 66 |
| 7 1963 Bureau of the Census and Bureau of Mines Statistics Compared | 68 |

Chart 1

MINING EMPLOYMENT IN THE UNITED STATES BY COUNTY: 1963



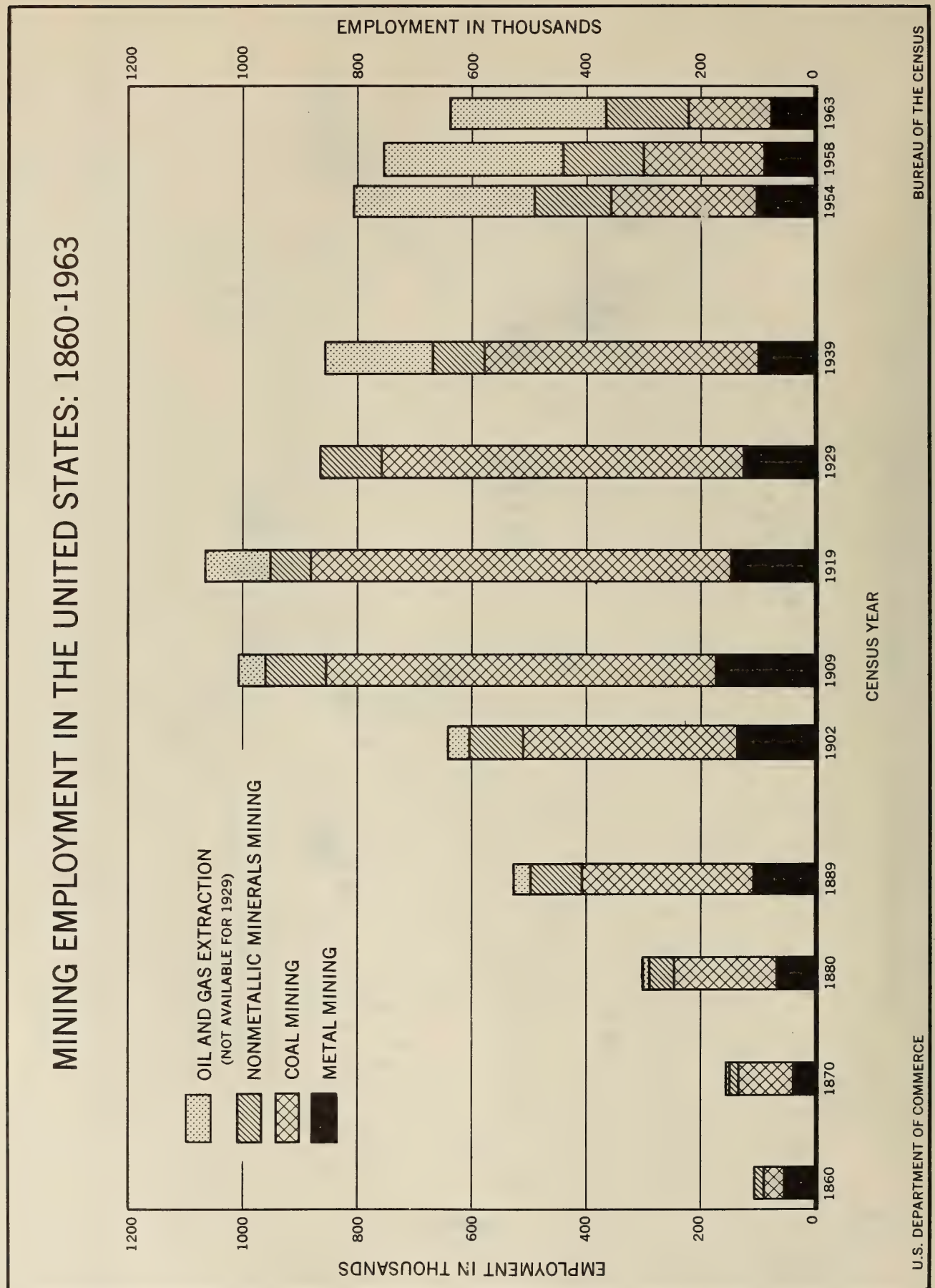


Chart 3

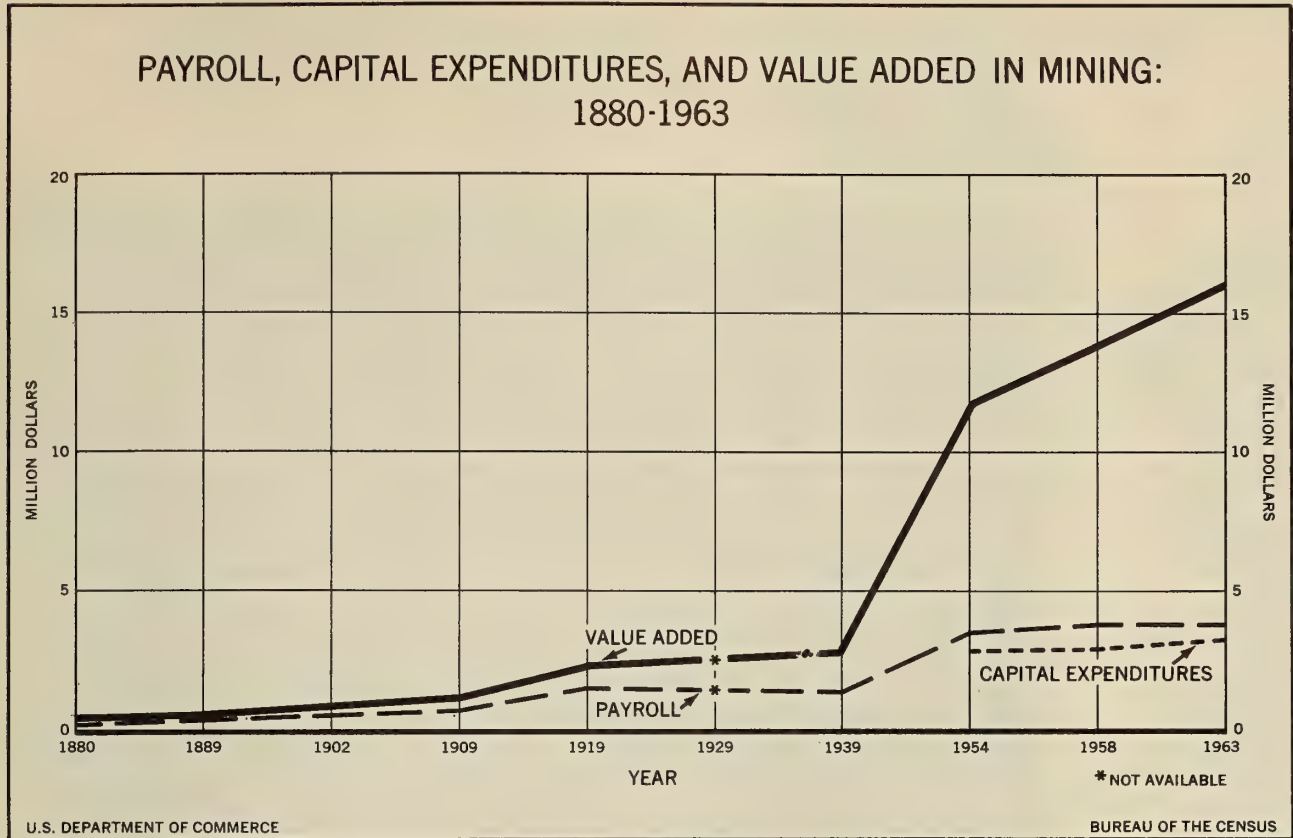


Chart 4

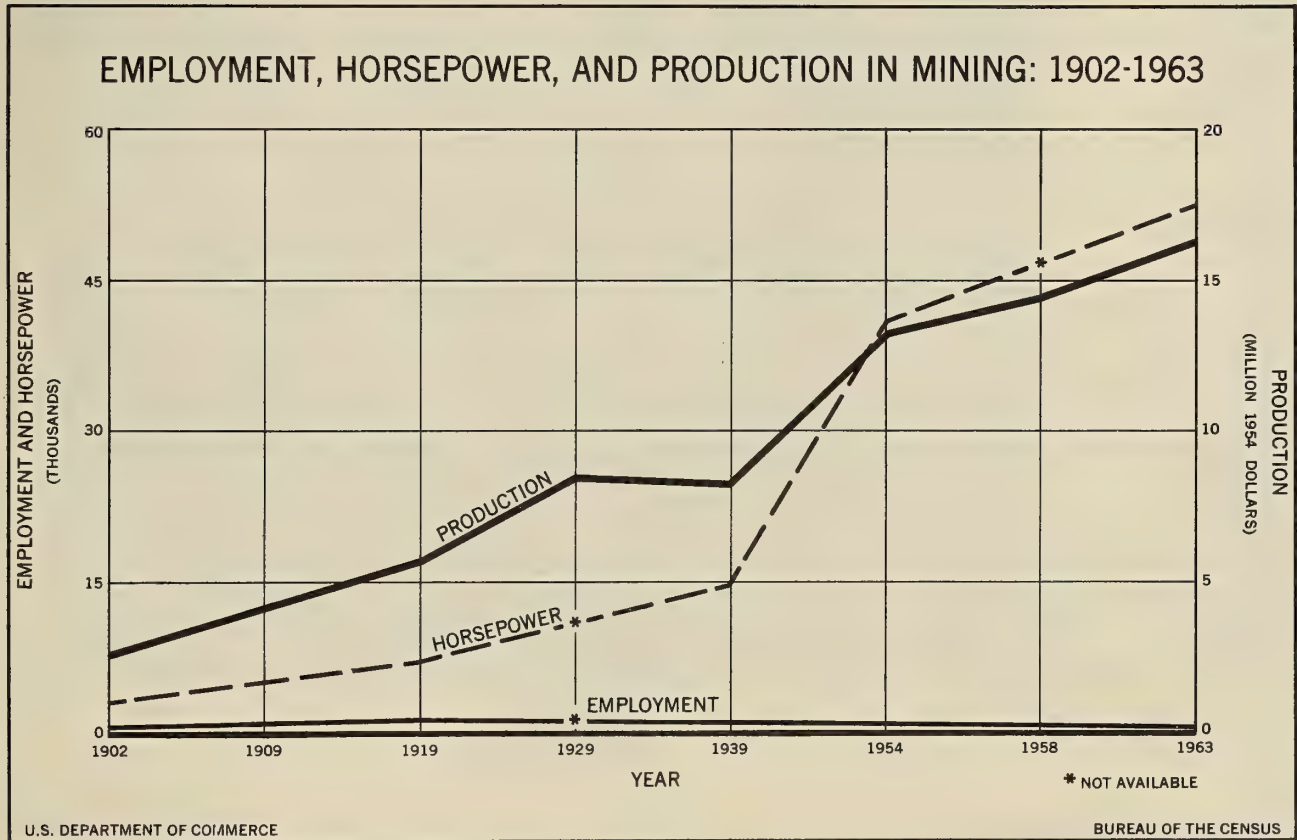
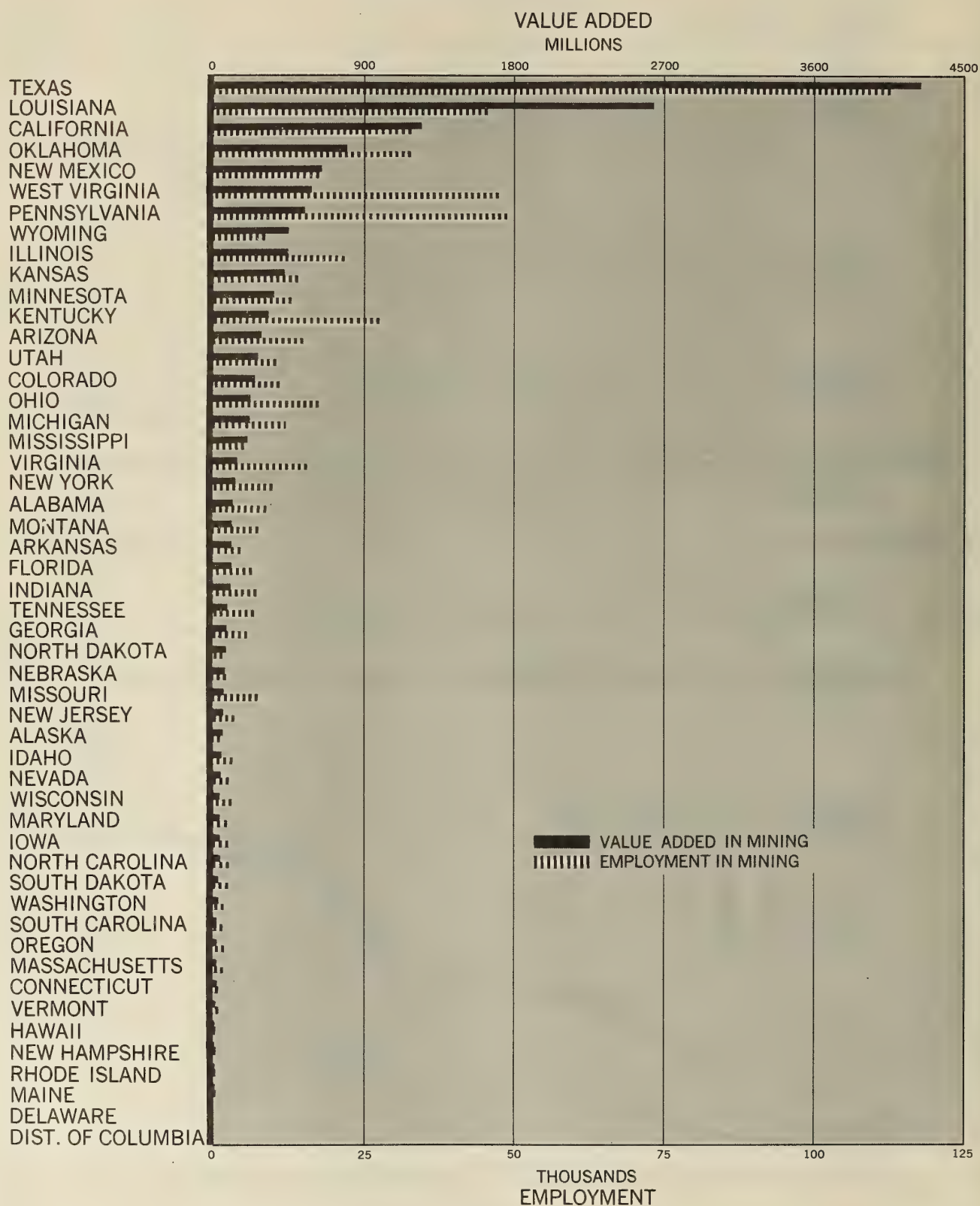


Chart 5

STATES RANKED BY VALUE ADDED AND EMPLOYMENT IN MINING: 1963



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

VALUE ADDED IN MINING, BY STATES: 1963



Chart 7

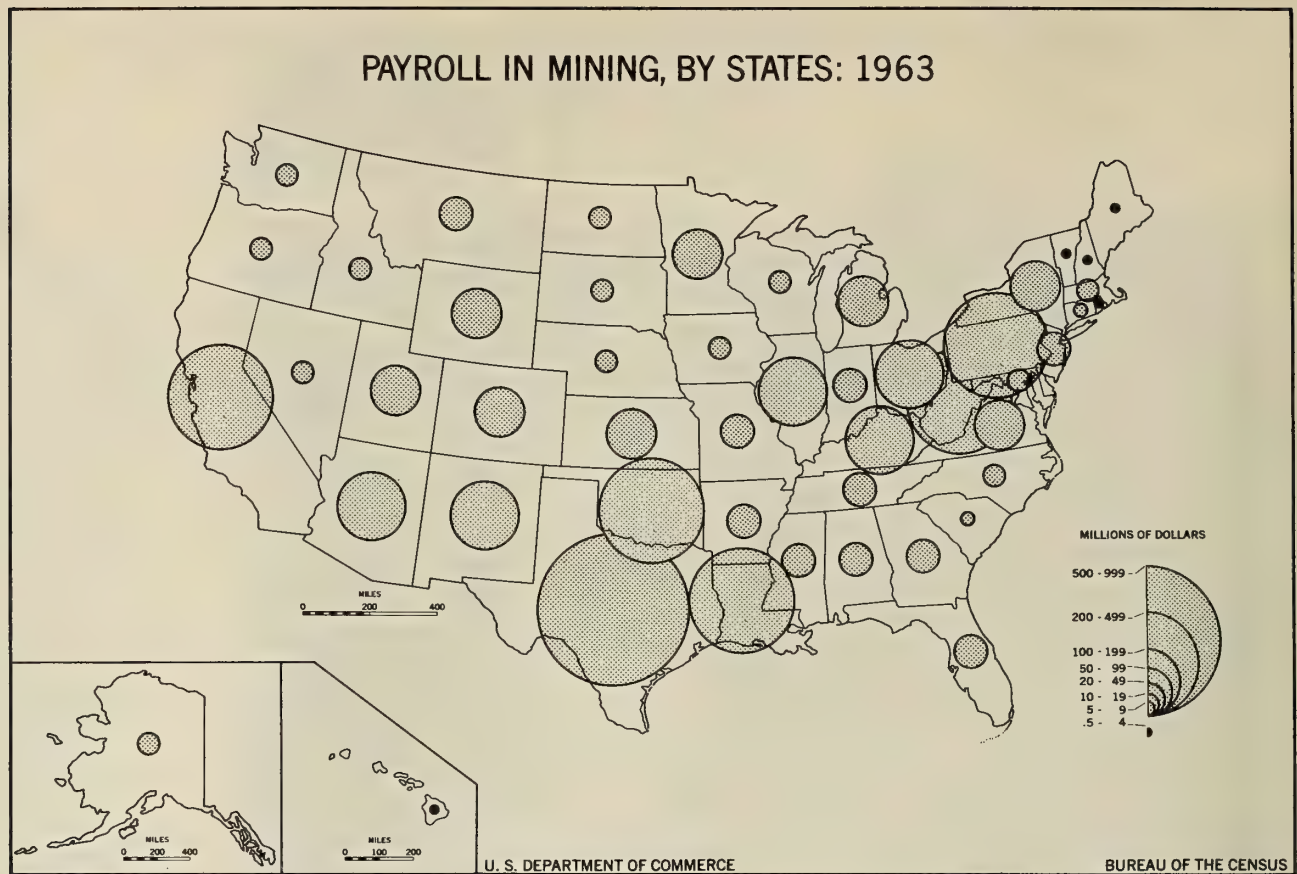


Chart 8

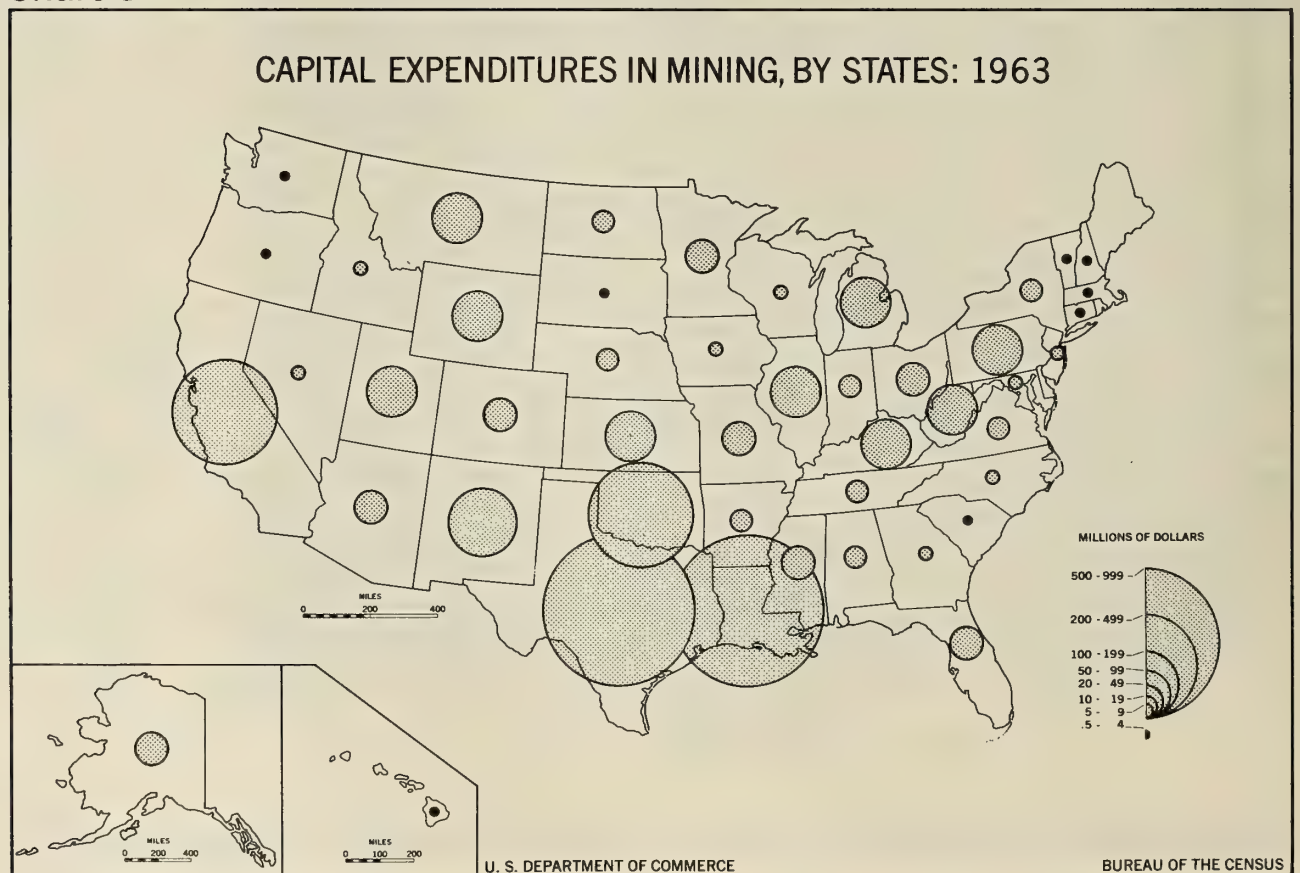


Chart 9

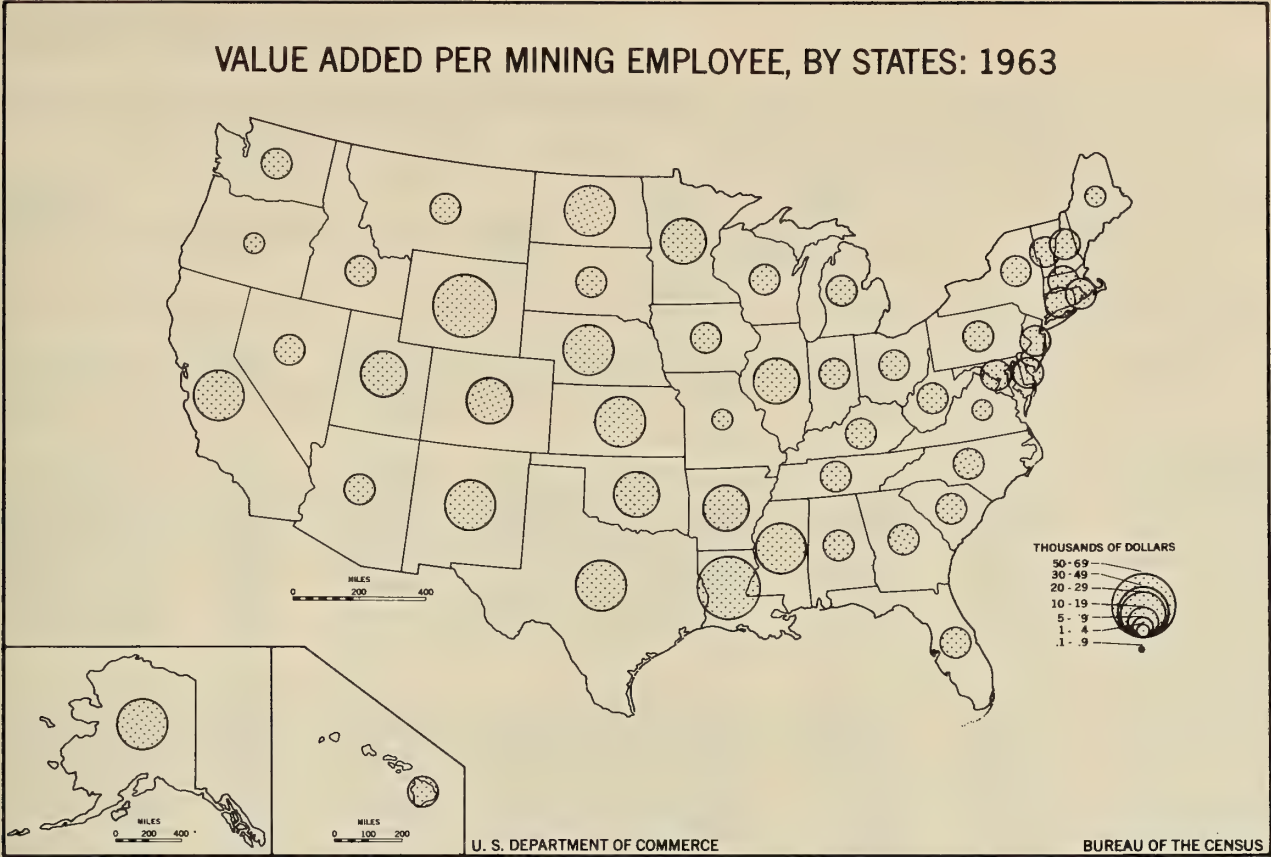


TABLE 1. General Statistics:

(For more detailed historical statistics, see table 1 of the General Summary report of the 1954 Census of

| Kind of operation and year | | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|----------------------------|--|------------------------|---------------------------|---------------|--------------------------|--|--------------------------|------------------------|-------------------------|
| | | Total | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| | | | | | | | | | |
| | Mineral industries only: | | | | | | | | |
| 1 | 1963..... | 38,651 | 5,499 | 615,572 | 3,742,469 | 481,466 | 972,983 | 2,679,515 | 15,910,015 |
| 2 | 1958..... | 36,392 | 6,045 | 733,941 | 3,749,015 | 565,392 | 1,080,512 | 2,622,980 | 13,385,195 |
| 3 | 1954..... | 37,641 | 6,204 | 787,127 | 3,394,844 | 648,341 | 1,251,909 | 2,579,744 | ² 11,558,664 |
| | Including operations in manufactures: | | | | | | | | |
| | All operations: | | | | | | | | |
| 4 | 1963..... | 40,532 | 5,743 | 637,001 | 3,842,987 | 501,734 | 1,013,821 | 2,773,193 | 16,231,255 |
| 5 | 1958..... | 37,966 | 6,295 | 754,882 | 3,835,608 | 585,159 | 1,119,489 | 2,702,484 | 13,685,405 |
| 6 | 1954 ⁶ | 38,858 | 6,466 | 807,387 | 3,466,101 | 667,821 | 1,291,472 | 2,646,825 | ² 11,752,300 |
| 7 | 1939 ⁷ | ⁸ 25,023 | (NA) | 856,389 | 1,174,771 | 774,130 | 1,287,852 | 970,546 | 2,679,828 |
| 8 | 1919 ⁹ | 22,348 | (NA) | 1,065,466 | 1,461,259 | 989,804 | (NA) | 1,309,509 | 2,364,654 |
| 9 | 1909 ⁹ | 25,692 | (NA) | 1,005,841 | 637,112 | 960,460 | (NA) | 582,209 | 939,139 |
| 10 | 1902 ¹¹ | ⁸ 52,088 | (NA) | 621,846 | 416,795 | ¹² 581,985 | (NA) | 376,218 | 628,359 |
| 11 | 1889..... | (NA) | (NA) | 542,584 | 227,129 | (NA) | (NA) | (NA) | 334,040 |
| 12 | 1880..... | (NA) | (NA) | 295,991 | 94,772 | (NA) | (NA) | (NA) | 216,790 |
| | Excluding oil and gas extraction industries: | | | | | | | | |
| 13 | 1963..... | 19,290 | 3,026 | 365,525 | 2,098,276 | 309,758 | 616,473 | 1,680,145 | 5,211,459 |
| 14 | 1958..... | 19,444 | 3,603 | 441,966 | 2,134,925 | 371,158 | 679,233 | 1,691,246 | 4,652,912 |
| 15 | 1954 ⁶ | 21,267 | 3,698 | 491,579 | 2,003,249 | 432,303 | 799,679 | 1,670,040 | ¹³ 4,078,606 |
| 16 | 1939 ⁷ | ⁸ 13,794 | (NA) | 670,239 | 856,389 | 625,134 | 1,022,824 | 750,111 | 1,437,355 |
| 17 | 1929 ¹⁴ | 10,996 | (NA) | 865,551 | 1,238,918 | 812,220 | (NA) | 1,099,895 | 1,955,804 |
| 18 | 1919 ⁹ | 12,377 | (NA) | 953,855 | 1,292,044 | 896,145 | (NA) | 1,174,112 | 1,779,723 |
| 19 | 1909 ⁹ | 17,494 | (NA) | 987,107 | 626,865 | 946,800 | (NA) | 578,037 | 848,154 |
| 20 | 1902 ¹¹ | ⁸ 20,352 | (NA) | 594,288 | 395,476 | ¹² 559,547 | (NA) | 359,826 | 569,337 |
| 21 | 1889..... | 21,807 | (NA) | 513,361 | 216,846 | (NA) | (NA) | (NA) | 318,722 |
| 22 | 1880..... | 7,395 | (NA) | 284,514 | 87,593 | (NA) | (NA) | (NA) | 199,099 |

Note: For explanation of column captions see Introduction.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.²Excludes data for the Uranium-Radium-Vanadium Ores Industry.³Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of liquids contained in such gas. See also footnote 2.⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.⁵Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments. For horsepower in 1963, also excludes data for dimension stone in manufactures.⁶Excludes data for sand and gravel mining operations in manufacturing establishments.

1963 and Earlier Years

Mineral Industries, Vol. I. For all years prior to 1939, excludes contract service operations)

| Selected expenses (\$1,000) | | | | Value of net shipments and receipts ¹ | Capital expenditures | Energy used (kwh equivalent) | | Horsepower rating of power equipment | |
|---|--------------------------------------|------------------------|-------------------------------------|--|-------------------------|---------------------------------|-----------------------------|--|-----|
| Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | | |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000) | |
| 3,261,942 | 2,670,235 | 1,918,322 | 1,123,639 | 18,804,429 | 3,263,615 | 436,435 | 906 | 52,772 | 1 |
| 2,885,122 | 1,756,351 | 1,861,899 | 1,017,578 | 16,373,083 | 2,804,104 | 405,631 | 717 | (NA) | 2 |
| 2,347,709 | ³ 708,930 | 1,828,519 | 1,214,263 | ² 14,226,176 | 2,726,171 | 373,168 | 576 | 40,877 | 3 |
| ⁴ 3,346,847 | 2,673,723 | ⁴ 1,918,765 | ⁵ 1,127,023 | 19,210,458 | ⁵ 3,267,558 | ⁵ 436,810 | ⁵ 893 | ⁵ 52,772 | 4 |
| ⁴ 2,944,092 | 1,758,277 | ⁴ 1,862,759 | ⁵ 1,019,892 | 16,728,989 | ⁵ 2,806,608 | ⁵ 406,110 | ⁵ 708 | (NA) | 5 |
| ⁴ 2,392,777 | ³ 710,442 | ⁴ 1,829,153 | ⁵ 1,216,036 | ² 14,465,256 | ⁵ 2,728,080 | ⁵ 373,770 | ⁵ 553 | ⁵ 41,045 | 6 |
| 531,992 | (NA) | 220,984 | (NA) | 3,432,804 | (NA) | 224,898 | 291 | 14,160 | 7 |
| 655,188 | 35,905 | 82,697 | (NA) | 3,138,444 | (NA) | ¹⁰ 250,624 | 253 | 6,816 | 8 |
| 243,580 | 28,885 | 32,320 | (NA) | 1,215,039 | (NA) | (NA) | (NA) | 4,723 | 9 |
| 120,867 | (NA) | 23,332 | (NA) | 772,558 | (NA) | (NA) | (NA) | 2,753 | 10 |
| 85,551 | (NA) | 6,720 | (NA) | 426,311 | (NA) | (NA) | (NA) | (NA) | 11 |
| 31,447 | (NA) | 3,730 | (NA) | 251,967 | (NA) | (NA) | (NA) | (NA) | 12 |
| ⁴ 1,545,953 | 719,848 | ⁴ 277,252 | ⁵ 478,950 | 6,787,062 | ⁵ 715,866 | ⁵ 107,466 | 347 | ⁵ 24,463 | 13 |
| ⁴ 1,357,358 | 765,891 | ⁴ 297,564 | ⁵ 364,751 | 6,071,942 | ⁵ 612,561 | ⁵ 95,750 | 258 | (NA) | 14 |
| ⁴ 1,091,849 | ² 537,527 | ⁴ 270,119 | ⁵ 350,969 | ¹³ 5,235,311 | ⁵ 499,876 | ⁵ 88,657 | 205 | ⁵ 20,941 | 15 |
| 317,652 | (NA) | 17,966 | (NA) | 1,772,973 | (NA) | 77,131 | 123 | 9,059 | 16 |
| 419,113 | (NA) | 17,914 | 86,733 | 2,392,831 | (NA) | 133,790 | 165 | 7,584 | 17 |
| 436,055 | 7,091 | 12,595 | (NA) | 2,235,464 | (NA) | ¹⁰ 209,193 | 233 | 4,989 | 18 |
| 187,172 | 19,429 | 15,192 | (NA) | 1,050,518 | (NA) | (NA) | (NA) | 3,492 | 19 |
| 95,901 | (NA) | 5,054 | (NA) | 670,292 | (NA) | (NA) | (NA) | 1,739 | 20 |
| 62,861 | (NA) | 6,720 | (NA) | 388,303 | (NA) | (NA) | (NA) | (NA) | .21 |
| 28,273 | (NA) | (NA) | (NA) | 227,366 | (NA) | (NA) | (NA) | (NA) | 22 |

⁷Except for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing stone at such operations was \$7,913 thousand; this value has been included in the value of shipments and value added in mining.

⁸Represents number of mines and quarries, number of natural gas liquids plants, number of crude petroleum and natural gas establishments, and for mining services industries, number of operating companies.

⁹Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. In 1929, there were 957 such sand and gravel establishments, with products valued at \$102,312 thousand, and 252 such stone quarries, with products valued at \$31,032 thousand. See also footnote 14.

¹⁰Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to only 3 percent of the total kwh equivalent of energy used; and for "Excluding oil and gas extraction industries" in 1929, to only 4 percent.

¹¹Includes data for lime plants producing lime valued at \$9,336 thousand. Excludes data for sand, gravel, common clay, and shale mining operations and for stone quarries at cement plants.

¹²Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

¹³Includes data for oil and gas extraction operations in Alaska. See also footnote 2.

¹⁴Excludes data for common clay and shale operations. In 1939, there were 609 such mines with products valued at \$6,341 thousand.

TABLE 2. Detailed Statistics by Industry

| Ind. code | Industry group and industry | Number of operating companies | Establishments (number) | | | | Value of shipments and receipts (\$1,000) | Value of net shipments and receipts (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | | Man-hours worked by production, development, and exploration workers (1,000) | |
|---------------|---|-------------------------------|-------------------------|---------------------------|-----------------------------|------------------------------|--|--|------------------------------------|--------------------------|--|-----------------|------------------------------|-------------------------|---|--|
| | | | Total | With 20 or more employees | Including mining operations | Including preparation plants | | | | Total | Production, development, and exploration workers | Other employees | Proprietors and firm members | | | |
| | | | | | | | | | | | | | Total | Performing manual labor | | |
| | | | | | | | | | | | | | | | | |
| | All mineral operations..... | 32,884 | 40,532 | 5,743 | 33,395 | 9,533 | 122,030,055 | 119,210,458 | 16,231,255 | 665,997 | 501,734 | 2135,267 | 328,996 | 319,049 | 1,013,821 | |
| | Mineral industries..... | 31,470 | 38,651 | 5,499 | 31,514 | 9,301 | 21,620,538 | 18,804,429 | 15,910,015 | 644,568 | 481,466 | 134,106 | 28,996 | 19,049 | 972,983 | |
| | Included in manufactures... | 1,507 | 1,881 | 244 | 1,881 | 232 | 1409,517 | 1406,029 | 321,240 | 21,429 | 20,268 | 21,161 | (NA) | (NA) | 40,838 | |
| | MAJOR INDUSTRY GROUPS | | | | | | | | | | | | | | | |
| 10 | Metal mining..... | 1,308 | 1,614 | 298 | 1,465 | 539 | 2,128,246 | 1,835,665 | 1,418,217 | 78,245 | 62,182 | 15,028 | 1,035 | 866 | 125,663 | |
| 11 | Anthracite mining..... | 1,025 | 1,069 | 102 | 946 | 153 | 236,511 | 172,064 | 120,540 | 13,159 | 10,324 | 1,462 | 1,373 | 1,307 | 19,544 | |
| 12 | Bituminous coal and lignite mining..... | 5,841 | 6,305 | 1,166 | 5,999 | 1,408 | 2,396,419 | 2,100,721 | 1,606,688 | 138,450 | 118,629 | 15,233 | 4,588 | 3,774 | 217,642 | |
| 13 | Oil and gas extraction.. | 16,339 | 21,242 | 2,447 | 14,898 | 652 | 14,512,459 | 12,423,399 | 11,019,796 | 289,145 | 191,976 | 79,500 | 17,669 | 9,554 | 397,348 | |
| | Nonmetallic minerals mining..... | 8,497 | 10,302 | 1,730 | 10,087 | 6,781 | 12,756,420 | 12,678,609 | 2,066,014 | 146,998 | 118,623 | 224,044 | 34,331 | 33,548 | 253,624 | |
| 14 | Mineral industries.... | 7,079 | 8,421 | 1,486 | 8,206 | 6,549 | 2,346,903 | 2,272,580 | 1,744,774 | 125,569 | 98,355 | 22,883 | 4,331 | 3,548 | 212,786 | |
| | Included in manufactures..... | 1,507 | 1,881 | 244 | 1,881 | 232 | 1409,517 | 1406,029 | 321,240 | 21,429 | 20,268 | 21,161 | (NA) | (NA) | 40,838 | |
| | INDUSTRIES | | | | | | | | | | | | | | | |
| 10 | Metal mining..... | 1,308 | 1,614 | 298 | 1,465 | 539 | 2,128,246 | 1,835,665 | 1,418,217 | 78,245 | 62,182 | 15,028 | 1,035 | 866 | 125,663 | |
| 1011 | Iron ores..... | 115 | 208 | 101 | 197 | 118 | 762,234 | 709,352 | 549,305 | 23,119 | 18,102 | 4,981 | 36 | 33 | 34,524 | |
| 1021 | Copper ores..... | 118 | 160 | 41 | 152 | 49 | 670,173 | 544,239 | 417,089 | 26,595 | 21,372 | 5,114 | 109 | 84 | 45,319 | |
| 1031 | Lead and zinc ores..... | 163 | 205 | 46 | 196 | 54 | 135,965 | 119,785 | 84,373 | 9,510 | 7,822 | 1,600 | 88 | 79 | 14,781 | |
| | Lead ores subindustry.. | 117 | 125 | 13 | 124 | 16 | 50,743 | 44,750 | 34,046 | 4,381 | 3,401 | 919 | 61 | 59 | 5,948 | |
| | Zinc ores subindustry.. | 50 | 80 | 33 | 72 | 38 | 85,222 | 75,035 | 50,327 | 5,129 | 4,421 | 681 | 27 | 20 | 8,833 | |
| 104 | Gold and silver ores.... | 459 | 466 | 15 | 465 | 203 | 60,224 | 60,224 | 49,026 | 14,625 | 3,585 | 631 | 409 | 373 | 7,605 | |
| 1042 | Lode gold..... | 199 | 201 | 5 | 200 | 34 | 26,632 | 26,632 | 21,312 | 2,563 | 2,091 | 306 | 166 | 131 | 4,544 | |
| 1043 | Placer gold..... | 155 | 158 | 2 | 158 | 158 | 7,532 | 7,532 | 5,810 | 526 | 325 | 36 | 165 | 164 | 731 | |
| 1044 | Silver ores..... | 105 | 107 | 8 | 107 | 11 | 26,060 | 26,060 | 526 | 1,536 | 1,169 | 289 | 78 | 78 | 2,330 | |
| 1051 | Bauxite..... | 10 | 17 | 4 | 11 | 7 | 21,491 | 20,478 | 17,464 | 558 | 414 | 138 | 6 | 6 | 751 | |
| 106 | Ferroalloy ores..... | 48 | 58 | 11 | 50 | 17 | 90,704 | 83,719 | 66,407 | 3,121 | 2,627 | 475 | 19 | 17 | 4,867 | |
| 1062 | Manganese ores..... | 16 | 17 | 5 | 11 | 8 | 7,228 | 62,804 | 2,348 | 228 | 180 | 44 | 4 | 3 | 351 | |
| 1064 and 1069 | Tungsten ores and ferroalloy ores, n.e.c. | 33 | 41 | 6 | 39 | 9 | 83,476 | 80,915 | 64,059 | 2,893 | 2,447 | 431 | 15 | 14 | 4,516 | |
| 1081 | Metal mining services... | 82 | 83 | 17 | (X) | (X) | 32,360 | 32,357 | 24,736 | 2,243 | 1,891 | 315 | 37 | 28 | 4,018 | |
| 109 | Miscellaneous metal ores | 346 | 417 | 63 | 394 | 91 | 355,095 | 265,511 | 209,817 | 8,474 | 6,369 | 1,774 | 331 | 246 | 13,798 | |
| 1092 | Mercury ores..... | 49 | 49 | 3 | 49 | 38 | 3,658 | 3,658 | 2,569 | 344 | 279 | 37 | 28 | 27 | 610 | |
| 1093 | Titanium ores..... | 7 | 8 | 7 | 8 | 8 | 22,033 | 22,033 | 15,021 | 997 | 846 | 151 | - | - | 1,721 | |
| 1094 | Uranium-radium-vanadium ores..... | 266 | 335 | 51 | 318 | 37 | 326,370 | 624,738 | 190,629 | 6,957 | 5,114 | 1,551 | 292 | 208 | 11,251 | |
| 1099 | Metallic ores, n.e.c.. | 25 | 25 | 2 | 19 | 8 | 3,034 | 62,407 | 1,598 | 176 | 130 | 35 | 11 | 11 | 216 | |
| 11 | Anthracite mining.... | 1,025 | 1,069 | 102 | 946 | 153 | 236,511 | 172,064 | 120,540 | 13,159 | 10,324 | 1,462 | 1,373 | 1,307 | 19,544 | |
| 1111 | Anthracite..... | 987 | 1,026 | 85 | 946 | 153 | 220,973 | 156,526 | 110,527 | 12,047 | 9,331 | 1,361 | 1,355 | 1,291 | 17,758 | |
| 1112 | Anthracite mining services..... | 41 | 43 | 17 | (X) | (X) | 15,538 | 15,538 | 10,013 | 1,112 | 993 | 101 | 18 | 16 | 1,786 | |
| 12 | Bituminous coal and lignite mining..... | 5,841 | 6,305 | 1,166 | 5,999 | 1,408 | 2,396,419 | 2,100,721 | 1,606,688 | 138,450 | 118,629 | 15,233 | 4,588 | 3,774 | 217,642 | |
| 1211 | Bituminous coal..... | 5,663 | 6,115 | 1,143 | 5,941 | 1,382 | 2,358,326 | 2,063,165 | 1,578,078 | 136,458 | 116,975 | 15,071 | 4,412 | 3,620 | 214,421 | |
| 1212 | Lignite..... | 52 | 59 | 6 | 58 | 26 | 14,112 | 13,981 | 11,830 | 557 | 441 | 71 | 45 | 45 | 884 | |
| 1213 | Bituminous coal and lignite mining services | 131 | 131 | 17 | (X) | (X) | 23,981 | 23,575 | 16,780 | 1,435 | 1,213 | 91 | 131 | 109 | 2,337 | |
| 13 | Oil and gas extraction..... | 16,339 | 21,242 | 2,447 | 14,898 | 652 | 14,512,459 | 12,423,399 | 11,019,796 | 289,145 | 191,976 | 79,500 | 17,669 | 9,554 | 397,348 | |
| 1311 | Crude petroleum and natural gas..... | 10,594 | 14,378 | 954 | 14,378 | (X) | 9,893,763 | 9,878,611 | 9,016,372 | 159,088 | 83,444 | 61,800 | 13,844 | 6,617 | 166,305 | |
| | Crude petroleum sub-industry..... | 9,384 | 12,326 | 789 | 12,326 | (X) | 8,600,086 | 8,589,719 | 7,812,956 | 138,431 | 71,707 | 54,135 | 12,589 | 5,812 | 142,847 | |
| | Natural gas subindustry | 1,628 | 2,052 | 165 | 2,052 | (X) | 1,293,677 | 1,288,892 | 1,203,416 | 20,657 | 11,737 | 7,665 | 1,255 | 805 | 23,458 | |
| 1321 | Natural gas liquids..... | 164 | 652 | 245 | (X) | 652 | 2,800,802 | 808,479 | 762,070 | 13,940 | 11,939 | 1,920 | 81 | 15 | 24,455 | |
| 138 | Oil and gas field services | 5,915 | 6,212 | 1,248 | 520 | (X) | 1,817,894 | 1,736,309 | 1,241,354 | 116,117 | 96,593 | 15,780 | 3,744 | 2,922 | 206,588 | |

See footnotes at end of table.

Group and Industry: 1963

| Principal expenses (\$1,000) | | | | | | | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | | | | Energy used-- kwh. equivalent (million kwh.) | Aggregate horsepower (prime movers plus electric motors driven by purchased energy) (1,000) | Ind. code |
|--|------------------------|-----------------------------------|-----------------------------------|----------------------|---------------------------|------------------------|--|--------------------------------|---|--|-----------------------------|--------------------------|---|--|---------------|
| Wages and salaries | | Supplies and purchases for resale | Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | Total | Development and exploration of mineral property | Preparation plant and other construction | New machinery and equipment | Used plant and equipment | | | |
| Production, development, and exploration workers | Other employees | | | | | | | | | | | | | | |
| 2,773,193 | ² 1,069,794 | ⁴ 2,784,972 | 2,673,723 | ⁴ 295,396 | ⁴ 266,479 | ⁴ 1,918,765 | ² 1,127,023 | ² 3,267,558 | ³ 1,431,662 | ² 506,320 | ² 1,136,103 | ² 193,473 | ² 436,810 | (NA) | |
| 2,679,515 | 1,062,954 | 2,702,630 | 2,670,235 | 294,434 | 264,878 | 1,918,322 | 1,123,639 | 3,263,615 | 1,431,662 | 505,850 | 1,133,269 | 192,834 | 436,435 | 52,772 | |
| 93,678 | ² 6,840 | ⁴ 82,342 | 3,488 | ⁴ 962 | ⁴ 1,601 | ⁴ 443 | ² 3,384 | ² 3,943 | (NA) | ² 470 | ² 2,834 | ² 639 | ² 375 | (NA) | |
| 383,671 | 131,536 | 331,116 | 311,733 | 39,448 | 51,395 | 110,801 | 96,480 | 230,944 | 65,068 | 83,892 | 75,222 | 6,762 | 31,911 | 6,115 | 10 |
| 49,889 | 8,946 | 27,156 | 63,919 | 2,947 | 5,771 | 22,230 | 9,059 | 15,111 | 939 | 4,177 | 8,065 | 1,930 | 2,692 | 704 | 11 |
| 650,955 | 111,308 | 380,461 | 285,563 | 21,330 | 56,724 | 66,133 | 197,860 | 218,340 | 7,312 | 38,444 | 152,236 | 20,348 | 16,071 | 6,301 | 12 |
| 1,093,048 | 651,663 | 1,575,624 | 1,953,875 | 135,516 | 89,754 | 1,641,513 | 648,073 | 2,551,692 | 1,342,262 | 328,037 | 743,441 | 137,952 | 329,344 | 28,309 | 13 |
| 595,630 | 166,341 | ⁴ 470,615 | ² 58,633 | ⁴ 96,155 | ⁴ 62,835 | ⁴ 78,088 | ² 175,551 | ² 251,471 | ³ 16,081 | ² 51,770 | ² 157,139 | ² 26,481 | ² 56,792 | (NA) | |
| 501,952 | 159,501 | 388,273 | 55,145 | 95,193 | 61,234 | 77,645 | 172,167 | 247,528 | 16,081 | 51,300 | 154,305 | 25,842 | 56,417 | 11,343 | 14 |
| 93,678 | 6,840 | ⁴ 82,342 | ² 3,488 | ⁴ 962 | ⁴ 1,601 | ⁴ 443 | ² 3,384 | ² 3,943 | (NA) | ² 470 | ² 2,834 | ² 639 | ² 375 | (NA) | |
| 383,671 | 131,536 | 331,116 | 311,733 | 39,448 | 51,395 | 110,801 | 96,480 | 230,944 | 65,068 | 83,892 | 75,222 | 6,762 | 31,911 | 6,115 | 10 |
| 112,781 | 48,790 | 120,388 | 64,616 | 23,341 | 17,829 | 55,510 | 27,889 | 96,644 | 23,251 | 51,734 | 19,063 | 2,596 | 17,725 | 2,646 | 1011 |
| 142,395 | 44,912 | 108,493 | 129,793 | 7,961 | 17,788 | 30,537 | 45,590 | 87,078 | 23,145 | 24,718 | 39,021 | 194 | 8,242 | 1,886 | 1021 |
| 37,935 | 11,402 | 22,848 | 26,113 | 933 | 5,734 | 3,588 | 4,272 | 11,896 | 6,919 | 1,083 | 3,579 | 315 | 1,082 | 435 | 1031 |
| 15,333 | 6,559 | ⁵ 15,886 | (⁵) | 259 | 2,233 | 2,531 | 1,896 | 6,108 | 4,063 | 250 | 1,766 | 29 | 380 | 207 | |
| 22,602 | 4,843 | ⁵ 33,075 | (⁵) | 674 | 3,501 | 1,057 | 2,376 | 5,788 | 2,856 | 833 | 1,813 | 286 | 702 | 228 | |
| 20,019 | 4,778 | ⁵ 11,325 | (⁵) | 1,219 | 2,017 | 1,798 | 2,025 | 7,186 | 4,513 | 656 | 1,524 | 493 | 901 | 240 | 104 |
| 11,422 | 2,439 | 5,366 | - | 469 | 935 | 925 | 484 | 2,859 | 1,863 | 207 | 626 | 163 | 324 | 83 | 1042 |
| 1,763 | 371 | 1,000 | (X) | 576 | 423 | 340 | 372 | 989 | 383 | 265 | 280 | 61 | 439 | 100 | 1043 |
| 6,834 | 1,968 | ⁵ 4,959 | (⁵) | 174 | 659 | 533 | 1,169 | 3,338 | 2,267 | 184 | 618 | 269 | 137 | 57 | 1044 |
| 2,285 | 1,157 | 660 | 1,474 | 287 | 185 | 1,228 | 462 | 269 | 30 | 43 | 196 | - | 234 | 29 | 1051 |
| 15,231 | 5,134 | ⁵ 22,359 | (⁵) | 522 | 2,112 | 3,682 | 1,453 | 5,831 | 2,363 | 1,258 | 2,082 | 128 | 550 | 157 | 106 |
| 820 | 318 | 398 | 4,424 | 66 | 92 | 105 | 181 | 386 | 71 | 38 | 234 | 43 | 31 | 20 | 1062 |
| 14,411 | 4,816 | ⁵ 17,537 | (⁵) | 456 | 2,020 | 3,577 | 1,272 | 5,445 | 2,292 | 1,220 | 1,848 | 85 | 519 | 137 | 1064 and 1069 |
| 11,485 | 2,438 | 5,209 | (X) | 1,204 | 73 | 393 | 3,784 | 3,039 | (X) | 102 | 2,682 | 255 | ⁷ 315 | 185 | 1081 |
| 41,540 | 12,925 | 47,308 | 82,263 | 3,981 | 5,657 | 14,065 | 11,005 | 19,001 | 4,847 | 4,298 | 7,075 | 2,781 | 2,862 | 537 | 109 |
| 1,562 | 277 | 791 | - | 135 | 110 | 242 | 128 | 317 | 136 | 37 | 81 | 63 | 54 | 19 | 1092 |
| 5,131 | 1,270 | 3,761 | - | 479 | 1,362 | 1,485 | 2,096 | 2,171 | (X) | 70 | 2,098 | 3 | 377 | 61 | 1093 |
| 34,170 | 11,049 | 41,747 | 81,636 | 3,253 | 4,145 | 12,334 | 8,555 | 15,929 | 4,401 | 4,147 | 4,687 | 2,694 | 2,386 | 434 | 1094 |
| 677 | 329 | 1,009 | 627 | 114 | 40 | 4 | 226 | 584 | 310 | 44 | 209 | 21 | 45 | 23 | 1099 |
| 49,889 | 8,946 | 27,156 | 63,919 | 2,947 | 5,771 | 22,230 | 9,059 | 15,111 | 939 | 4,177 | 8,065 | 1,930 | 2,692 | 704 | 11 |
| 44,867 | 8,155 | 23,474 | 63,919 | 2,117 | 5,441 | 21,336 | 6,810 | 12,651 | 939 | 4,159 | 6,270 | 1,283 | 2,442 | 581 | 1111 |
| 5,022 | 791 | 3,682 | (X) | 830 | 330 | 894 | 2,249 | 2,460 | (X) | 18 | 1,795 | 647 | ⁷ 250 | 123 | 1112 |
| 650,955 | 111,308 | 380,461 | 285,563 | 21,330 | 56,724 | 66,133 | 197,860 | 218,340 | 7,312 | 38,444 | 152,236 | 20,348 | 16,071 | 6,301 | 12 |
| 642,338 | 110,153 | ⁵ 659,378 | (⁵) | 19,804 | 56,354 | 64,742 | 190,805 | 210,835 | 7,302 | 38,055 | 145,668 | 19,810 | 15,598 | 6,070 | 1211 |
| 2,245 | 515 | ² 1,788 | (⁵) | 200 | 304 | 287 | 4,336 | 4,633 | 10 | 247 | 4,316 | 60 | 140 | 76 | 1212 |
| 6,372 | 640 | 4,858 | (X) | 1,326 | 66 | 1,104 | 2,719 | 2,872 | (X) | 142 | 2,252 | 478 | ⁷ 333 | 155 | 1213 |
| 1,093,048 | 651,663 | 1,575,624 | 1,953,875 | 135,516 | 89,754 | 1,641,513 | 648,073 | 2,551,692 | 1,342,262 | 328,037 | 743,441 | 137,952 | 329,344 | 28,309 | 13 |
| 494,910 | 521,521 | 1,044,877 | (X) | 56,833 | 77,826 | 1,486,535 | 421,250 | 2,209,930 | 1,329,563 | 235,420 | 546,228 | 98,719 | 146,168 | 14,235 | 1311 |
| 426,811 | 465,821 | 911,021 | (X) | 50,760 | 74,871 | 1,285,688 | 371,288 | 1,906,498 | 1,148,649 | 191,469 | 472,173 | 94,207 | 132,740 | 12,502 | |
| 68,099 | 55,700 | 133,856 | (X) | 6,073 | 2,955 | 200,847 | 49,962 | 303,432 | 180,914 | 43,951 | 74,055 | 4,512 | 13,428 | 1,733 | |
| 80,745 | 15,808 | 90,453 | 1,953,875 | 7,494 | 7,673 | 54,025 | 39,068 | 113,856 | (X) | 70,788 | 40,208 | 2,860 | 158,705 | 3,887 | 1321 |
| 517,393 | 114,334 | 440,294 | (X) | 71,189 | 4,255 | 100,953 | 187,755 | 227,906 | 12,699 | 21,829 | 157,005 | 36,373 | ⁷ 24,471 | 10,187 | 138 |

TABLE 2. Detailed Statistics by Industry

| Ind. code | Industry group and industry | Number of operating companies | Establishments (number) | | | | Value of shipments and receipts (\$1,000) | Value of net shipments and receipts (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|-----------|---|-------------------------------|-------------------------|---------------------------|-----------------------------|-----------------------------------|--|--|------------------------------------|--------------------------|--|-----------------|------------------------------|-------------------------|---|
| | | | Total | With 20 or more employees | Including mining operations | Including prep- aration plants | | | | Total | Production, development, and exploration workers | Other employees | Proprietors and firm members | | |
| | | | | | | | | | | | | | Total | Performing manual labor | |
| | | | | | | | | | | | | | | | |
| | Oil and gas field services--Continued | | | | | | | | | | | | | | |
| 1381 | Drilling oil and gas wells..... | 2,671 | 2,836 | 746 | 380 | (X) | 979,316 | 974,546 | 653,337 | 56,951 | 50,333 | 5,083 | 1,535 | 1,119 | 106,266 |
| 1382 | Oil and gas exploration services..... | 359 | 373 | 68 | 5 | (X) | 119,824 | 111,704 | 89,988 | 8,886 | 7,232 | 1,451 | 203 | 169 | 16,246 |
| 1389 | Oil and gas field services, n.e.c..... | 2,901 | 3,003 | 434 | 135 | (X) | 718,754 | 650,059 | 498,029 | 50,280 | 39,028 | 9,246 | 2,006 | 1,634 | 84,076 |
| 14 | Nonmetallic mineral mining..... | 8,497 | 10,302 | 1,730 | 10,087 | 6,781 | 12,756,420 | 12,678,609 | 2,066,014 | 146,998 | 118,623 | 224,044 | 34,331 | 33,548 | 253,624 |
| | Mineral industries..... | 7,079 | 8,421 | 1,486 | 8,206 | 6,549 | 2,346,903 | 2,272,580 | 1,744,774 | 125,569 | 98,355 | 22,883 | 4,331 | 3,548 | 212,786 |
| | Included in manufactures..... | 1,507 | 1,881 | 244 | 1,881 | 232 | 1409,517 | 1406,029 | 321,240 | 21,429 | 20,268 | 21,161 | (NA) | (NA) | 40,838 |
| | | | | | | | | | | | | | | | |
| 1411 | Dimension stone..... | 503 | 551 | 107 | 551 | 244 | 106,178 | 102,154 | 70,908 | 11,169 | 9,640 | 1,347 | 3182 | 3166 | 19,462 |
| | Mineral industry..... | 289 | 319 | 25 | 319 | 12 | 19,735 | 19,199 | 14,842 | 2,338 | 1,970 | 186 | 182 | 166 | 3,820 |
| | Included in manufactures..... | 218 | 232 | 82 | 232 | 232 | 86,443 | 82,955 | 56,066 | 8,831 | 7,670 | 1,161 | (NA) | (NA) | 15,642 |
| | | | | | | | | | | | | | | | |
| | Dimension limestone... Mineral subindustry.. | 107 | 110 | 22 | 110 | 52 | 21,721 | 21,107 | 15,237 | 2,199 | 1,853 | 306 | 340 | 337 | 3,772 |
| | Included in manufactures..... | 59 | 61 | 5 | 61 | 3 | 3,513 | 3,268 | 2,947 | 366 | 286 | 40 | 40 | 37 | 568 |
| | | 49 | 49 | 17 | 49 | 49 | 18,208 | 17,839 | 12,290 | 1,833 | 1,567 | 266 | (NA) | (NA) | 3,204 |
| | | | | | | | | | | | | | | | |
| | Dimension granite..... Minerals subindustry.. | 116 | 137 | 42 | 137 | 72 | 40,885 | 39,076 | 26,203 | 3,490 | 3,009 | 461 | 320 | 318 | 6,099 |
| | Included in manufactures..... | 49 | 66 | 10 | 66 | 1 | 9,428 | 9,195 | 6,513 | 844 | 773 | 51 | 20 | 18 | 1,645 |
| | | 70 | 71 | 32 | 71 | 71 | 31,457 | 29,881 | 19,690 | 2,646 | 2,236 | 410 | (NA) | (NA) | 4,454 |
| | | | | | | | | | | | | | | | |
| | Dimension stone, n.e.c. Mineral subindustry.. | 280 | 304 | 43 | 304 | 120 | 43,572 | 41,971 | 29,468 | 5,480 | 4,778 | 580 | 3122 | 3111 | 9,591 |
| | Included in manufactures..... | 181 | 192 | 10 | 192 | 8 | 6,794 | 6,736 | 5,382 | 1,128 | 911 | 95 | 122 | 111 | 1,607 |
| | | 101 | 112 | 33 | 112 | 112 | 36,778 | 35,235 | 24,086 | 4,352 | 3,867 | 485 | (NA) | (NA) | 7,984 |
| | | | | | | | | | | | | | | | |
| 1421 | Crushed and broken stone Mineral industry..... | 1,886 | 2,586 | 767 | 2,540 | 2,097 | 1949,791 | 1930,650 | 705,553 | 50,149 | 42,070 | 37,050 | 31,029 | 3693 | 92,602 |
| | Included in manufactures..... | 1,780 | 2,256 | 668 | 2,210 | 2,097 | 794,860 | 775,719 | 581,655 | 44,265 | 36,186 | 7,050 | 1,029 | 693 | 80,834 |
| | | 194 | 330 | 99 | 330 | (X) | 1154,931 | 1154,931 | 123,898 | 5,884 | 5,884 | (NA) | (NA) | (NA) | 11,768 |
| | | | | | | | | | | | | | | | |
| | Crushed and broken limestone..... Mineral subindustry.. | 1,328 | 1,882 | 583 | 1,857 | 1,529 | 1681,938 | 1667,052 | 520,606 | 36,821 | 31,299 | 34,764 | 3758 | 3499 | 69,301 |
| | Included in manufactures..... | 1,277 | 1,612 | 491 | 1,587 | 1,529 | 542,886 | 528,000 | 408,450 | 31,853 | 26,331 | 4,764 | 758 | 499 | 59,365 |
| | | 139 | 270 | 92 | 270 | (X) | 1139,052 | 1139,052 | 112,156 | 4,968 | 4,968 | (NA) | (NA) | (NA) | 9,936 |
| | | | | | | | | | | | | | | | |
| | Crushed and broken granite..... Mineral industry.... | 99 | 154 | 65 | 154 | 140 | 190,213 | 190,026 | 62,020 | 4,125 | 3,471 | 3611 | 343 | 341 | 7,938 |
| | Included in manufactures..... | 95 | 150 | 65 | 150 | 140 | 89,749 | 89,562 | 61,702 | 4,103 | 3,449 | 611 | 43 | 41 | 7,894 |
| | | 4 | 4 | - | 4 | (X) | 1464 | 1464 | 318 | 22 | 22 | (NA) | (NA) | (NA) | 44 |
| | | | | | | | | | | | | | | | |
| | Crushed and broken stone, n.e.c. Mineral industry.... | 459 | 550 | 119 | 529 | 428 | 1177,640 | 1173,572 | 122,927 | 9,203 | 7,300 | 31,675 | 3228 | 3153 | 15,363 |
| | Included in manufactures..... | 408 | 494 | 112 | 473 | 428 | 162,225 | 158,157 | 111,503 | 8,309 | 6,406 | 1,675 | 228 | 153 | 13,575 |
| | | 54 | 56 | 7 | 56 | (X) | 115,415 | 115,415 | 11,424 | 894 | 894 | (NA) | (NA) | (NA) | 1,788 |
| | | | | | | | | | | | | | | | |
| 1441 | Sand and gravel..... Mineral industry..... | 4,729 | 5,241 | 534 | 5,209 | 3,840 | 1757,722 | 1746,220 | 582,696 | 45,544 | 35,919 | 37,100 | 32,525 | 32,220 | 76,390 |
| | Included in manufactures..... | 4,141 | 4,616 | 512 | 4,584 | 3,840 | 678,068 | 666,566 | 513,728 | 42,667 | 33,042 | 7,100 | 2,525 | 2,220 | 70,620 |
| | | 618 | 625 | 22 | 625 | (X) | 179,654 | 179,654 | 68,968 | 2,877 | 2,877 | (NA) | (NA) | (NA) | 5,770 |
| | | | | | | | | | | | | | | | |
| | Construction sand and gravel..... Mineral subindustry.. | 4,589 | 5,044 | 484 | 5,019 | 3,658 | 1687,193 | 1676,739 | 528,256 | 41,714 | 32,901 | 36,370 | 32,443 | 32,168 | 69,784 |
| | Included in manufactures..... | 4,001 | 4,419 | 462 | 4,394 | 3,658 | 607,539 | 597,085 | 459,288 | 38,837 | 30,024 | 6,370 | 2,443 | 2,168 | 64,014 |
| | | 618 | 625 | 22 | 625 | (X) | 179,654 | 179,654 | 68,968 | 2,877 | 2,877 | (NA) | (NA) | (NA) | 5,770 |
| | | | | | | | | | | | | | | | |
| | Glass sand subindustry | 32 | 39 | 23 | 38 | 39 | 29,099 | 28,753 | 22,649 | 1,576 | 1,223 | 347 | 6 | 3 | 2,738 |
| | Molding sand subindustry..... | 68 | 93 | 11 | 91 | 85 | 16,642 | 16,315 | 12,838 | 982 | 764 | 163 | 55 | 49 | 1,546 |
| | Industrial sand, n.e.c. subindustry..... | 59 | 65 | 16 | 61 | 58 | 24,788 | 24,413 | 18,953 | 1,272 | 1,031 | 220 | 21 | 12 | 2,322 |
| | | | | | | | | | | | | | | | |
| 145 | Clay and related minerals Mineral industries.... | 825 | 1,080 | 136 | 1,080 | 201 | 1221,417 | 1218,934 | 160,006 | 11,640 | 10,263 | 31,169 | 3208 | 3155 | 21,277 |
| | Included in manufactures..... | 349 | 423 | 111 | 423 | 201 | 161,644 | 159,161 | 113,585 | 8,524 | 7,147 | 1,169 | 208 | 155 | 15,061 |
| | | 496 | 657 | 25 | 657 | (X) | 159,773 | 159,773 | 46,421 | 3,116 | 3,116 | (NA) | (NA) | (NA) | 6,216 |

See footnotes at end of table.

| Principal expenses (\$1,000) | | | | | | | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | | | | | Energy used-- kwh. equivalent (million kwh.) | Aggregate horsepower (prime movers plus electric motors driven by purchased energy) (1,000) | Ind. code |
|--|-------------------|-----------------------------------|-----------------------------------|-------------------|---------------------------|-------------------|--|--------------------------------|---|--|-----------------------------|--------------------------|---------------|--|--|-----------|
| Wages and salaries | | Supplies and purchases for resale | Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | Total | Development and exploration of mineral property | Preparation plant and other construction | New machinery and equipment | Used plant and equipment | | | | |
| Production, development, and exploration workers | Other employees | | | | | | | | | | | | | | | |
| 281,064 | 37,086 | 232,349 | (X) | 41,711 | 2,211 | 82,053 | 115,681 | 148,026 | 12,351 | 13,542 | 92,633 | 29,500 | 718,103 | 5,253 | 1381 | |
| 36,915 | 10,913 | 23,036 | (X) | 3,102 | 156 | 5,204 | 10,064 | 11,726 | - | 826 | 10,545 | 355 | 7547 | 877 | 1382 | |
| 199,414 | 66,335 | 184,909 | (X) | 26,376 | 1,888 | 13,696 | 62,010 | 68,154 | 348 | 7,461 | 53,827 | 6,518 | 75,821 | 4,057 | 1389 | |
| 595,630 | 166,341 | 470,615 | 258,633 | 496,155 | 462,835 | 478,088 | 2175,551 | 2251,471 | 316,081 | 251,770 | 2157,139 | 226,481 | 256,792 | (NA) | | |
| 501,952 | 159,501 | 388,273 | 55,145 | 95,193 | 61,234 | 77,645 | 172,167 | 247,528 | 16,081 | 51,300 | 154,305 | 25,842 | 56,417 | 11,343 | 14 | |
| 93,678 | 6,840 | 482,342 | 23,488 | 4962 | 41,601 | 4443 | 23,384 | 23,943 | (NA) | 2470 | 22,834 | 2639 | 2375 | (NA) | | |
| 39,061 6,986 | 7,698 858 | 27,961 3,519 | 3,502 14 | 1,606 644 | 2,039 438 | 1,073 630 | 4,146 762 | 5,057 1,114 | 333 33 | 765 295 | 3,365 531 | 894 255 | 651 276 | (NA) 79 | 1411 | |
| 32,075 | 6,840 | 24,442 | 3,488 | 962 | 1,601 | 443 | 3,384 | 3,943 | (NA) | 470 | 2,834 | 639 | 375 | (NA) | | |
| 8,679 1,108 | 1,589 158 | 5,276 390 | 383 14 | 354 77 | 457 68 | 299 161 | 897 138 | 1,182 282 | 34 4 | 88 15 | 810 142 | 280 121 | 112 23 | (NA) 18 | | |
| 7,571 | 1,431 | 4,886 | 369 | 277 | 389 | 138 | 759 | 900 | (NA) | 73 | 668 | 159 | 89 | (NA) | | |
| 12,738 3,271 | 3,199 330 | 11,553 2,297 | 1,576 - | 656 328 | 742 221 | 418 181 | 1,066 273 | 1,329 385 | 323 23 | 299 123 | 790 186 | 217 53 | 337 185 | (NA) 28 | | |
| 9,467 | 2,869 | 9,256 | 1,576 | 328 | 521 | 237 | 793 | 944 | (NA) | 176 | 604 | 164 | 152 | (NA) | | |
| 17,644 2,607 | 2,910 370 | 11,132 832 | 1,543 - | 596 239 | 840 149 | 356 288 | 2,183 351 | 2,546 447 | 36 6 | 378 157 | 1,765 203 | 397 81 | 202 68 | (NA) 33 | | |
| 15,037 | 2,540 | 10,300 | 1,543 | 357 | 691 | 68 | 1,832 | 2,099 | (NA) | 221 | 1,562 | 316 | 134 | (NA) | | |
| 209,257 177,843 | 351,272 51,272 | 4188,378 157,345 | 9,051 9,051 | 426,083 26,083 | 419,807 19,807 | 423,599 23,599 | (NA) 60,007 | (NA) 82,687 | (NA) 1,402 | (NA) 18,741 | (NA) 50,813 | (NA) 11,731 | (NA) 9,951 | (NA) 4,269 | 1421 | |
| 31,414 | (NA) | 431,033 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | | |
| 154,035 126,791 | 333,797 33,797 | 4123,863 96,967 | 7,061 7,061 | 418,960 18,960 | 413,930 13,930 | 416,409 16,409 | (NA) 40,644 | (NA) 59,535 | (NA) 1,034 | (NA) 11,829 | (NA) 37,213 | (NA) 9,459 | (NA) 6,484 | (NA) 3,219 | | |
| 27,244 | (NA) | 426,896 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | | |
| 16,100 16,010 | 3,816 3,816 | 422,880 22,734 | 87 87 | 41,867 1,867 | 41,883 1,883 | 42,175 2,175 | (NA) 6,486 | (NA) 7,185 | (NA) 146 | (NA) 1,782 | (NA) 4,425 | (NA) 832 | (NA) 812 | (NA) 362 | | |
| 90 | (NA) | 4146 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | | |
| 39,122 35,042 | 13,659 13,659 | 441,635 37,644 | 1,903 1,903 | 45,256 5,256 | 43,994 3,994 | 45,015 5,015 | (NA) 12,877 | (NA) 15,967 | (NA) 222 | (NA) 5,130 | (NA) 9,175 | (NA) 1,440 | (NA) 2,655 | (NA) 688 | | |
| 4,080 | (NA) | 43,991 | (X) | (4) | (4) | (4) | (NA) | | | | | | | | | |

TABLE 2. Detailed Statistics by Industry

| Ind. code | Industry group and industry | Number of operating companies | Establishments (number) | | | | Value of shipments and receipts (\$1,000) | Value of net shipments and receipts (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|-----------|--|-------------------------------|-------------------------|---------------------------|-----------------------------|------------------------------|--|--|------------------------------------|--------------------------|--|-----------------|------------------------------|-------------------------|---|
| | | | Total | With 20 or more employees | Including mining operations | Including preparation plants | | | | Total | Production, development, and exploration workers | Other employees | Proprietors and firm members | | |
| | | | | | | | | | | | | | Total | Performing manual labor | |
| | | | | | | | | | | | | | | | |
| 1452 | Clay and related minerals--Continued Bentonite..... | 31 | 44 | 16 | 44 | 32 | 18,105 | (D) | 11,435 | 824 | 644 | 167 | 13 | 8 | 1,508 |
| 1453 | Fireclay..... | 228 | 293 | 29 | 293 | 38 | 140,540 | 140,333 | 30,596 | 2,296 | 2,057 | 118 | 121 | 89 | 4,041 |
| | Mineral industry... Included in manufactures..... | 134 | 155 | 14 | 155 | 38 | 17,105 | 16,898 | 12,640 | 1,100 | 861 | 118 | 121 | 89 | 1,640 |
| | | 101 | 138 | 15 | 138 | (X) | 123,435 | 123,435 | 17,956 | 1,196 | 1,196 | (NA) | (NA) | (NA) | 2,401 |
| 1454 | Fuller's earth..... | 15 | 15 | 9 | 15 | 12 | 12,954 | (D) | 9,071 | 763 | 653 | 105 | 5 | 1 | 1,363 |
| 1455 | Kaolin and ball clay. | 39 | 48 | 28 | 48 | 37 | 66,077 | 65,073 | 49,841 | 3,367 | 2,916 | 430 | 21 | 12 | 6,123 |
| 1456 | Feldspar..... | 24 | 31 | 10 | 31 | 17 | 8,459 | 8,429 | 6,117 | 470 | 394 | 67 | 9 | 8 | 850 |
| 1459 | Clay and related minerals,n.e.c..... | 495 | 649 | 44 | 649 | 65 | 175,282 | (NA) | 52,946 | 3,920 | 3,599 | 3282 | 339 | 337 | 7,392 |
| | Mineral industry... Included in manufactures..... | 115 | 130 | 34 | 130 | 65 | 38,944 | (D) | 24,481 | 2,000 | 1,679 | 282 | 39 | 37 | 3,577 |
| | | 410 | 519 | 10 | 519 | (X) | 136,338 | 136,338 | 28,465 | 1,920 | 1,920 | (NA) | (NA) | (NA) | 3,815 |
| 147 | Chemical and fertilizer minerals..... | 177 | 235 | 106 | 217 | 138 | 576,904 | 536,840 | 433,313 | 21,118 | 14,595 | 6,445 | 78 | 59 | 31,213 |
| 1472 | Barite..... | 45 | 54 | 13 | 54 | 27 | 16,668 | 16,536 | 11,107 | 1,467 | 911 | 523 | 33 | 23 | 1,887 |
| 1473 | Fluorspar..... | 28 | 30 | 7 | 24 | 16 | 15,792 | 12,340 | 8,869 | 808 | 682 | 122 | 4 | 4 | 1,346 |
| 1474 | Potash, soda, and borate minerals..... | 19 | 23 | 16 | 23 | 19 | 192,116 | (D) | 156,151 | 7,055 | 4,822 | 2,228 | 5 | 3 | 9,849 |
| 1475 | Phosphate rock..... | 43 | 66 | 39 | 56 | 43 | 161,658 | 130,295 | 94,889 | 5,640 | 3,996 | 1,628 | 16 | 13 | 9,047 |
| 1476 | Rock salt..... | 20 | 25 | 15 | 23 | 20 | 59,297 | 58,630 | 49,539 | 2,450 | 1,812 | 631 | 7 | 5 | 4,260 |
| 1477 | Sulfur..... | 11 | 17 | 10 | 17 | 3 | 113,103 | 113,103 | 100,349 | 2,607 | 1,600 | 1,003 | 4 | 4 | 3,264 |
| 1479 | Chemical-fertilizer mining, n.e.c..... | 19 | 20 | 6 | 20 | 10 | 18,270 | (D) | 12,409 | 1,091 | 772 | 310 | 9 | 7 | 1,560 |
| 1481 | Nonmetallic minerals services..... | 118 | 119 | 11 | (X) | (X) | 13,246 | 13,244 | 9,326 | 960 | 806 | 65 | 89 | 66 | 1,575 |
| 149 | Miscellaneous minerals, n.e.c..... | 420 | 490 | 69 | 490 | 261 | 1131,162 | 1130,567 | 104,212 | 6,418 | 5,330 | 3868 | 3220 | 3189 | 11,105 |
| | Mineral industries... Included in manufactures..... | 413 | 453 | 53 | 453 | 261 | 102,446 | 101,851 | 78,325 | 5,697 | 4,609 | 868 | 220 | 189 | 9,663 |
| | | 9 | 37 | 16 | 37 | (X) | 128,716 | 128,716 | 25,887 | 721 | 721 | (NA) | (NA) | (NA) | 1,442 |
| 1492 | Gypsum..... | 40 | 74 | 22 | 74 | 25 | 138,876 | 138,876 | 33,640 | 1,198 | 1,104 | 375 | 319 | 317 | 2,249 |
| | Mineral industry.. Included in manufactures..... | 33 | 37 | 6 | 37 | 25 | 10,160 | 10,160 | 7,753 | 477 | 383 | 75 | 19 | 17 | 807 |
| | | 9 | 37 | 16 | 37 | (X) | 128,716 | 128,716 | 25,887 | 721 | 721 | (NA) | (NA) | (NA) | 1,442 |
| 1493 | Mica..... | 31 | 34 | 6 | 34 | 18 | 5,560 | (D) | 3,925 | 407 | 357 | 41 | 9 | 9 | 733 |
| 1494 | Native asphalt and bitumens..... | 11 | 13 | 4 | 13 | 10 | 8,509 | (D) | 6,333 | 427 | 357 | 65 | 5 | 2 | 728 |
| 1495 | Pumice and pumicite. | 83 | 85 | 1 | 85 | 51 | 5,358 | 5,338 | 4,198 | 293 | 222 | 25 | 46 | 37 | 428 |
| 1496 | Talc, soapstone, and pyrophyllite..... | 43 | 65 | 9 | 65 | 32 | 17,534 | 17,272 | 13,746 | 1,307 | 1,054 | 222 | 31 | 30 | 2,229 |
| 1497 | Natural abrasives, except sand..... | 23 | 23 | 5 | 23 | 14 | 5,002 | 5,001 | 4,125 | 312 | 216 | 78 | 18 | 12 | 466 |
| 1498 | Peat..... | 108 | 109 | 4 | 109 | 43 | 7,360 | 7,360 | 5,626 | 571 | 442 | 62 | 67 | 60 | 948 |
| 1499 | Nonmetallic minerals, n.e.c..... | 81 | 87 | 18 | 87 | 68 | 42,963 | 42,911 | 32,619 | 1,903 | 1,578 | 300 | 25 | 22 | 3,324 |

Note: For explanation of column captions see Introduction.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.

²Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

Group and Industry: 1963—Continued

| Principal expenses (\$1,000) | | | | | | | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | | | | Energy used—kwh. equivalent (million kwh.) | Aggregate horsepower (prime movers plus electric motors driven by purchased energy) (1,000) | Ind. code |
|--|-----------------|-----------------------------------|-----------------------------------|-----------------|---------------------------|---------------|--|--------------------------------|---|--|-----------------------------|--------------------------|---|--|-----------|
| Wages and salaries | | Supplies and purchases for resale | Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | Total | Development and exploration of mineral property | Preparation plant and other construction | New machinery and equipment | Used plant and equipment | | | |
| Production, development, and exploration workers | Other employees | | | | | | | | | | | | | | |
| 3,141 | 986 | 54,349 | (5) | 681 | 514 | 1,348 | 1,134 | 1,356 | 112 | 358 | 727 | 159 | 614 | 42 | 1452 |
| 9,427 | 813 | 48,210 | 69 | 4637 | 4239 | 4944 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 3,795 | 813 | 2,731 | 69 | 637 | 239 | 944 | 2,004 | 2,159 | 195 | 574 | 1,131 | 259 | 176 | 86 | 1453 |
| 25,632 | (2) | 45,479 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 2,423 | 644 | 2,525 | - | 1,035 | 321 | 370 | 805 | 1,173 | - | 293 | 776 | 104 | 748 | 35 | 1454 |
| 14,500 | 3,218 | 511,924 | (5) | 3,236 | 1,875 | 674 | 3,764 | 5,237 | 478 | 584 | 4,094 | 81 | 2,547 | 192 | 1455 |
| 1,749 | 214 | 1,889 | 30 | 331 | 460 | 602 | 732 | 1,702 | 210 | 907 | 468 | 117 | 155 | 40 | 1456 |
| 16,617 | 2,181 | 414,365 | 24 | 45,550 | 41,610 | 41,137 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 8,507 | 2,181 | 6,492 | 24 | 5,550 | 1,610 | 1,137 | 2,642 | 2,992 | 133 | 583 | 1,969 | 307 | 4,038 | 133 | 1459 |
| 28,110 | (2) | 47,873 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 85,678 | 51,430 | 69,335 | 41,266 | 23,630 | 15,694 | 19,838 | 33,849 | 60,021 | 10,801 | 11,801 | 36,414 | 1,005 | 25,695 | 1,235 | 147 |
| 3,605 | 3,194 | 53,758 | (5) | 374 | 831 | 957 | 742 | 1,101 | 20 | 440 | 526 | 115 | 271 | 60 | 1472 |
| 3,037 | 944 | 2,258 | 3,339 | 456 | 595 | 320 | 268 | 313 | 15 | 163 | 89 | 46 | 331 | 24 | 1473 |
| 32,901 | 18,958 | 528,687 | (5) | 9,650 | 4,624 | 7,998 | 11,779 | 26,773 | 7,806 | 4,893 | 13,766 | 308 | 8,279 | 330 | 1474 |
| 20,642 | 11,313 | 17,568 | 33,623 | 4,986 | 8,274 | 9,648 | 14,904 | 22,234 | 1,902 | 5,494 | 14,512 | 326 | 4,619 | 525 | 1475 |
| 11,142 | 4,813 | 510,108 | (5) | 509 | 957 | 427 | 5,158 | 7,401 | 983 | 556 | 5,688 | 174 | 502 | 106 | 1476 |
| 10,578 | 10,019 | 4,994 | - | 7,546 | 50 | 451 | 799 | 1,086 | 3 | 77 | 986 | 20 | 11,583 | 151 | 1477 |
| 3,773 | 2,189 | 5,742 | 524 | 109 | 363 | 37 | 199 | 1,113 | 72 | 178 | 847 | 16 | 110 | 39 | 1479 |
| 4,209 | 372 | 2,667 | - | 602 | 70 | 951 | 1,064 | 1,434 | 6 | 274 | 922 | 232 | 219 | 69 | 1481 |
| 26,421 | 35,686 | 419,022 | 555 | 43,495 | 43,160 | 45,196 | 37,451 | 311,929 | 31,520 | 32,653 | 36,610 | 31,146 | 31,822 | 3312 | |
| 22,788 | 5,686 | 16,193 | 555 | 3,495 | 3,160 | 5,196 | 7,451 | 11,929 | 1,520 | 2,653 | 6,610 | 1,146 | 1,822 | 312 | 149 |
| 3,633 | (NA) | 42,829 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 5,546 | 3493 | 44,680 | - | 4297 | 4224 | 4450 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 1,913 | 493 | 1,851 | - | 297 | 224 | 450 | 864 | 1,279 | 90 | 206 | 862 | 121 | 122 | 32 | 1492 |
| 3,633 | (NA) | 42,829 | (X) | (4) | (4) | (4) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | |
| 1,299 | 283 | 51,375 | (5) | 212 | 228 | 176 | 504 | 860 | 96 | 95 | 448 | 221 | 113 | 25 | 1493 |
| 1,723 | 518 | 1,085 | - | 178 | 342 | 1,025 | 627 | 1,081 | 391 | 199 | 480 | 11 | 75 | 34 | 1494 |
| 981 | 75 | 812 | - | 197 | 63 | 263 | 507 | 682 | 80 | 171 | 356 | 75 | 63 | 26 | 1495 |
| 5,390 | 1,237 | 2,973 | 262 | 269 | 662 | 302 | 468 | 1,148 | 205 | 220 | 630 | 93 | 151 | 48 | 1496 |
| 1,048 | 535 | 900 | - | 157 | 151 | 88 | 79 | 498 | 12 | 258 | 203 | 25 | 70 | 17 | 1497 |
| 1,473 | 305 | 1,002 | - | 423 | 91 | 350 | 738 | 870 | 9 | 48 | 603 | 210 | 101 | 26 | 1498 |
| 8,961 | 2,240 | 56,488 | (5) | * 1,762 | 1,399 | 2,542 | 3,664 | 5,511 | 637 | 1,456 | 3,028 | 390 | 1,127 | 104 | 1499 |

³Excludes data for mining operations in manufacturing establishments.⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of purchased fuels, purchased electric energy, and contract work is included with the cost of supplies and purchases for resale.⁵The cost of minerals received for preparation is included with the cost of supplies and purchases for resale.⁶Includes the value of purchases for resale.⁷Excludes energy furnished without charge by operators of mineral properties.

TABLE 3. Selected Statistics by

| | Division and State | Establishments (number) | | | | Employees (number) | | | Man-hours worked by production, development, and exploration workers (1,000) | Principal expenses (\$1,000) | | | |
|----|-------------------------------|-------------------------|---------------------------|-----------------------------|------------------------------|--------------------|--|------------------------------|---|------------------------------|--|------------------------------|-----------------------------------|
| | | Total | With 20 or more employees | Including mining operations | Including preparation plants | Total | Production, development, and exploration workers | Other employees ¹ | | Total | Wages and salaries | | Supplies and purchases for resale |
| | | | | | | | | | | | Production, development, and exploration workers | Other employees ¹ | |
| 1 | United States, total | 40,532 | 5,743 | 33,395 | 9,533 | 637,001 | 501,734 | 135,267 | 1,013,821 | 11,782,322 | 2,773,193 | 1,069,794 | ² 2,784,972 |
| | Mineral industries | 38,651 | 5,499 | 31,514 | 9,301 | 615,572 | 481,466 | 134,106 | 972,983 | 11,592,968 | 2,679,515 | 1,062,954 | 2,702,630 |
| | Included in manufactures..... | 1,881 | 244 | 1,881 | 232 | 21,429 | 20,268 | 1,161 | 40,838 | 189,354 | 93,678 | ¹ 6,840 | ² 82,342 |
| | MINERAL INDUSTRIES | | | | | | | | | | | | |
| 2 | New England..... | 350 | 58 | 341 | 261 | 3,950 | 3,159 | 791 | 6,776 | 38,591 | 16,659 | 6,255 | 9,207 |
| 3 | Maine..... | 45 | 2 | 43 | 26 | 209 | 191 | 18 | 417 | 1,290 | 706 | 83 | 294 |
| 4 | New Hampshire..... | 32 | 3 | 32 | 28 | 217 | 167 | 50 | 375 | 2,248 | 863 | 317 | 608 |
| 5 | Vermont..... | 44 | 10 | 43 | 26 | 846 | 740 | 106 | 1,583 | 6,973 | 3,435 | 702 | ³ 1,840 |
| 6 | Massachusetts..... | 128 | 24 | 126 | 109 | 1,655 | 1,216 | 439 | 2,562 | 16,004 | 6,508 | 3,546 | ³ 3,855 |
| 7 | Rhode Island..... | 21 | 4 | 20 | 15 | 204 | 176 | 28 | 362 | 1,915 | 902 | 233 | ³ 341 |
| 8 | Connecticut..... | 80 | 15 | 77 | 57 | 819 | 669 | 150 | 1,479 | 10,161 | 4,245 | 1,374 | ³ 2,992 |
| 9 | Middle Atlantic..... | 4,080 | 523 | 3,707 | 1,096 | 62,495 | 50,867 | 11,628 | 99,760 | 788,856 | 273,682 | 90,531 | 162,019 |
| 10 | New York..... | 518 | 69 | 485 | 262 | 9,878 | 6,643 | 3,235 | 13,947 | 114,992 | 41,317 | 29,905 | 24,800 |
| 11 | New Jersey..... | 157 | 47 | 153 | 130 | 3,700 | 2,877 | 823 | 6,361 | 43,574 | 16,560 | 6,830 | 14,310 |
| 12 | Pennsylvania..... | 3,405 | 407 | 3,069 | 704 | 48,917 | 41,347 | 7,570 | 79,452 | 630,290 | 215,805 | 53,796 | 122,909 |
| 13 | East North Central..... | 4,753 | 570 | 4,200 | 1,761 | 62,234 | 50,762 | 11,472 | 101,801 | 910,999 | 288,514 | 85,129 | 206,706 |
| 14 | Ohio..... | 1,541 | 180 | 1,379 | 506 | 17,625 | 14,194 | 3,431 | 28,717 | 213,877 | 76,487 | 27,700 | 56,293 |
| 15 | Indiana..... | 728 | 76 | 660 | 267 | 7,314 | 5,900 | 1,414 | 11,818 | 81,068 | 32,632 | 9,195 | ³ 23,051 |
| 16 | Illinois..... | 1,447 | 209 | 1,210 | 412 | 22,043 | 18,025 | 4,018 | 36,341 | 351,638 | 106,714 | 28,704 | 70,544 |
| 17 | Michigan..... | 691 | 78 | 613 | 312 | 12,155 | 10,137 | 2,018 | 19,055 | 229,186 | 59,488 | 15,727 | 45,712 |
| 18 | Wisconsin..... | 346 | 27 | 338 | 264 | 3,097 | 2,506 | 591 | 5,020 | 35,230 | 13,193 | 3,803 | ³ 12,179 |
| 19 | West North Central..... | 3,551 | 393 | 2,910 | 1,306 | 44,119 | 34,852 | 9,267 | 70,324 | 760,023 | 180,932 | 68,839 | 184,663 |
| 20 | Minnesota..... | 334 | 67 | 323 | 247 | 13,248 | 9,947 | 3,301 | 18,923 | 240,241 | 59,522 | 31,479 | 74,941 |
| 21 | Iowa..... | 295 | 32 | 286 | 247 | 2,661 | 2,256 | 405 | 5,299 | 27,270 | 10,528 | 2,924 | 8,445 |
| 22 | Missouri..... | 425 | 66 | 375 | 285 | 7,728 | 5,818 | 1,910 | 11,259 | 75,916 | 27,128 | 11,098 | 21,198 |
| 23 | North Dakota..... | 187 | 23 | 150 | 68 | 1,693 | 1,363 | 330 | 2,847 | 36,809 | 7,649 | 2,106 | ³ 14,661 |
| 24 | South Dakota..... | 131 | 14 | 124 | 68 | 2,553 | 2,227 | 326 | 4,910 | 27,936 | 11,699 | 1,976 | ³ 10,496 |
| 25 | Nebraska..... | 370 | 21 | 318 | 179 | 2,125 | 1,714 | 411 | 3,775 | 35,762 | 8,642 | 2,531 | ³ 11,923 |
| 26 | Kansas..... | 1,809 | 170 | 1,334 | 212 | 14,111 | 11,527 | 2,584 | 23,311 | 316,089 | 55,764 | 16,725 | 55,869 |
| 27 | South Atlantic..... | 4,447 | 802 | 4,111 | 1,130 | 82,179 | 72,264 | 9,915 | 140,768 | 1,044,564 | 366,226 | 68,053 | 244,994 |
| 28 | Delaware and Maryland.. | 179 | 32 | 175 | 97 | 2,432 | 2,031 | 401 | 4,298 | 26,900 | 9,573 | 3,191 | 7,341 |
| 29 | Virginia..... | 944 | 201 | 907 | 227 | 15,631 | 13,972 | 1,659 | 25,514 | 150,285 | 57,894 | 9,053 | 33,588 |
| 30 | West Virginia..... | 2,702 | 374 | 2,438 | 354 | 47,636 | 42,444 | 5,192 | 79,814 | 623,768 | 238,509 | 38,535 | 146,919 |
| 31 | North Carolina..... | 169 | 46 | 164 | 125 | 2,615 | 2,268 | 347 | 5,012 | 24,200 | 8,728 | 2,190 | ³ 8,883 |
| 32 | South Carolina..... | 68 | 25 | 66 | 58 | 1,660 | 1,471 | 189 | 3,327 | 15,314 | 5,615 | 1,159 | ³ 6,555 |
| 33 | Georgia..... | 166 | 63 | 161 | 99 | 5,650 | 4,926 | 724 | 10,656 | 59,734 | 22,198 | 4,880 | 22,182 |
| 34 | Florida..... | 219 | 61 | 200 | 170 | 6,555 | 6,782 | 1,403 | 12,147 | 144,363 | 23,709 | 9,045 | 20,585 |
| 35 | East South Central..... | 3,309 | 563 | 2,878 | 842 | 48,829 | 42,869 | 5,960 | 80,663 | 643,084 | 200,999 | 38,684 | 154,023 |
| 36 | Kentucky..... | 2,066 | 319 | 1,787 | 421 | 27,771 | 24,899 | 2,872 | 45,351 | 343,424 | 115,110 | 16,465 | 70,186 |
| 37 | Tennessee..... | 503 | 87 | 479 | 191 | 6,867 | 6,022 | 845 | 12,281 | 73,698 | 27,270 | 5,174 | 22,844 |
| 38 | Alabama..... | 371 | 87 | 346 | 171 | 8,920 | 7,969 | 951 | 14,960 | 102,024 | 38,717 | 7,123 | 31,221 |
| 39 | Mississippi..... | 369 | 70 | 266 | 59 | 5,271 | 3,979 | 1,292 | 8,071 | 123,938 | 19,902 | 9,922 | 29,772 |
| 40 | West South Central..... | 12,127 | 1,745 | 8,502 | 975 | 196,365 | 135,900 | 60,465 | 287,706 | 4,998,703 | 768,333 | 502,778 | 1,184,537 |
| 41 | Arkansas..... | 422 | 60 | 344 | 88 | 4,727 | 3,965 | 762 | 8,124 | 78,318 | 18,714 | 4,874 | 21,245 |
| 42 | Louisiana..... | 1,454 | 353 | 881 | 150 | 45,715 | 34,897 | 10,818 | 76,717 | 1,653,187 | 215,396 | 97,695 | ³ 885,467 |
| 43 | Oklahoma..... | 2,519 | 300 | 1,817 | 173 | 32,898 | 21,313 | 11,585 | 41,636 | 580,306 | 105,849 | 94,048 | ³ 230,114 |
| 44 | Texas..... | 7,732 | 1,032 | 5,460 | 564 | 113,025 | 75,725 | 37,300 | 161,229 | 2,686,892 | 428,374 | 306,161 | 608,843 |
| 45 | Mountain..... | 3,664 | 515 | 2,868 | 886 | 77,003 | 61,916 | 15,087 | 127,380 | 1,578,390 | 387,078 | 120,733 | 366,559 |
| 46 | Montana..... | 416 | 40 | 338 | 81 | 7,563 | 6,105 | 1,458 | 12,552 | 149,921 | 35,353 | 11,712 | 30,122 |
| 47 | Idaho..... | 145 | 14 | 139 | 75 | 3,256 | 2,780 | 476 | 5,488 | 34,694 | 15,465 | 3,654 | ³ 10,091 |
| 48 | Wyoming..... | 532 | 101 | 321 | 92 | 8,732 | 6,629 | 2,103 | 14,131 | 218,181 | 43,766 | 17,127 | ³ 93,014 |
| 49 | Colorado..... | 858 | 83 | 725 | 211 | 11,203 | 8,396 | 2,807 | 16,210 | 178,434 | 48,265 | 24,462 | 42,542 |
| 50 | New Mexico..... | 865 | 149 | 600 | 128 | 17,638 | 13,776 | 3,862 | 27,978 | 453,162 | 85,356 | 29,209 | 101,572 |
| 51 | Arizona..... | 260 | 39 | 236 | 111 | 15,180 | 12,789 | 2,391 | 28,672 | 235,498 | 88,818 | 18,579 | 68,035 |
| 52 | Utah..... | 384 | 71 | 322 | 114 | 10,695 | 9,104 | 1,591 | 17,320 | 257,209 | 55,638 | 13,120 | 44,160 |
| 53 | Nevada..... | 204 | 18 | 187 | 74 | 2,736 | 2,337 | 399 | 5,029 | 51,291 | 14,417 | 2,870 | ³ 27,177 |
| 54 | Pacific..... | 2,370 | 330 | 1,997 | 1,044 | 38,398 | 28,877 | 9,521 | 57,805 | 829,758 | 197,092 | 81,952 | 189,922 |
| 55 | Washington..... | 248 | 22 | 235 | 142 | 1,876 | 1,543 | 333 | 3,005 | 23,789 | 9,604 | 2,302 | 6,979 |
| 56 | Oregon..... | 206 | 22 | 201 | 146 | 1,938 | 1,571 | 367 | 3,028 | 21,192 | 8,819 | 2,415 | 5,715 |
| 57 | California..... | 1,734 | 264 | 1,394 | 658 | 32,941 | 24,338 | 8,603 | 48,781 | 728,046 | 167,470 | 74,715 | 166,397 |
| 58 | Alaska..... | 138 | 18 | 125 | 72 | 1,328 | 1,137 | 191 | 2,431 | 53,257 | 9,748 | 2,313 | 9,446 |
| 59 | Hawaii..... | 44 | 4 | 42 | 26 | 315 | 288 | 27 | 560 | 3,474 | 1,451 | 207 | 1,385 |

See footnotes at end of table.

Geographic Area: 1963

| Principal expenses--Con. (\$1,000) | | | | Value of shipments and receipts ⁴ | Value added in mining | Purchased machinery installed ¹ | Capital expenditures (\$1,000) | | | Energy used--kwh equivalent ¹ | | Horsepower rating of power equipment ⁵ | | |
|------------------------------------|----------------------|---------------------------|------------------------|--|-----------------------|--|--------------------------------|--|---|--|-----------------------|---|-----------------------|----|
| Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | | | Total ¹ | Development and exploration of mineral property ⁵ | Plant and other construction, machinery, and equipment ¹ | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (\$1,000) | | | | (million) | (1,000) | (1,000) | | |
| 2,673,723 | ² 295,396 | ² 266,479 | ² 1,918,765 | 22,030,055 | 16,231,255 | 1,127,023 | 3,267,558 | 1,431,662 | 1,835,896 | ¹ 436,810 | ¹ 893 | 52,772 | (NA) | 1 |
| 2,670,235 | 294,434 | 264,878 | 1,918,322 | 21,620,538 | 15,910,015 | 1,123,639 | 3,263,615 | 1,431,662 | 1,831,953 | 436,435 | 906 | 52,772 | 110 | |
| 3,488 | ² 962 | ² 1,601 | ² 443 | 409,517 | 321,240 | 3,384 | 3,943 | (NA) | 3,943 | ¹ 375 | ¹ 49 | (NA) | (NA) | |
| 724 | 2,420 | 1,730 | 1,596 | 56,167 | 42,353 | 5,260 | 7,123 | 450 | 6,673 | 790 | 250 | 392 | 124 | 2 |
| 1 | 127 | 59 | 20 | 1,965 | 1,517 | 260 | 313 | 7 | 306 | 31 | 162 | 16 | 84 | 3 |
| - | 141 | 110 | 209 | 3,102 | 2,184 | 320 | 470 | 2 | 468 | 39 | 234 | 25 | 150 | 4 |
| (³) | 387 | 446 | 163 | 11,072 | 8,780 | 496 | 1,040 | 390 | 650 | 165 | 223 | 47 | 64 | 5 |
| (³) | 1,012 | 584 | 499 | 22,442 | 16,902 | 2,737 | 3,147 | 29 | 3,118 | 353 | 290 | 146 | 120 | 6 |
| (³) | 112 | 49 | 278 | 2,661 | 2,018 | 123 | 260 | 6 | 254 | 27 | 153 | 26 | 148 | 7 |
| (³) | 641 | 482 | 427 | 14,925 | 10,952 | 1,324 | 1,893 | 16 | 1,877 | 175 | 262 | 132 | 197 | 8 |
| 147,322 | 22,129 | 29,663 | 63,510 | 1,129,402 | 740,308 | 72,945 | 108,494 | 13,692 | 94,802 | 13,042 | 256 | 3,995 | 79 | 9 |
| 3,320 | 5,659 | 4,898 | 5,093 | 166,561 | 129,730 | 8,371 | 15,310 | 3,896 | 11,414 | 3,176 | 478 | 734 | 110 | 10 |
| 641 | 2,247 | 2,263 | 723 | 72,978 | 55,232 | 5,142 | 7,580 | 369 | 7,211 | 910 | 316 | 256 | 89 | 11 |
| 143,361 | 14,223 | 22,502 | 57,694 | 889,863 | 555,346 | 59,432 | 85,604 | 9,427 | 76,177 | 8,956 | 217 | 3,005 | 73 | 12 |
| 153,115 | 32,031 | 37,439 | 108,065 | 1,487,774 | 1,042,467 | 111,602 | 203,651 | 30,718 | 172,933 | 18,707 | 369 | 5,379 | 106 | 13 |
| 22,662 | 7,836 | 5,956 | 16,943 | 318,810 | 223,883 | 31,066 | 45,829 | 7,465 | 38,364 | 3,753 | 264 | 1,576 | 111 | 14 |
| (³) | 3,819 | 4,446 | 7,925 | 143,340 | 107,524 | 15,940 | 19,365 | 1,453 | 17,912 | 1,877 | 318 | 614 | 104 | 15 |
| 98,679 | 8,402 | 17,263 | 21,332 | 654,518 | 450,534 | 44,715 | 56,951 | 10,932 | 46,019 | 5,735 | 318 | 1,567 | 87 | 16 |
| 30,701 | 9,382 | 8,524 | 59,652 | 316,375 | 223,052 | 15,489 | 76,137 | 10,661 | 65,476 | 6,681 | 659 | 1,257 | 124 | 17 |
| (³) | 2,592 | 1,250 | 2,213 | 54,731 | 37,474 | 4,392 | 5,369 | 207 | 5,162 | 661 | 264 | 365 | 146 | 18 |
| 160,375 | 36,355 | 20,994 | 107,865 | 1,476,680 | 1,069,300 | 73,747 | 176,619 | 59,146 | 117,473 | 28,116 | 807 | 4,892 | 140 | 19 |
| 46,781 | 15,321 | 6,971 | 5,226 | 502,129 | 367,698 | 10,385 | 25,194 | 8,790 | 16,404 | 10,906 | 1,096 | 1,757 | 177 | 20 |
| 564 | 2,312 | 780 | 1,717 | 44,943 | 33,200 | 3,397 | 5,472 | 240 | 5,232 | 636 | 282 | 320 | 142 | 21 |
| 583 | 3,031 | 3,284 | 9,594 | 95,561 | 66,288 | 14,120 | 22,537 | 8,648 | 13,889 | 1,286 | 221 | 602 | 103 | 22 |
| (³) | 1,034 | 622 | 10,737 | 93,144 | 73,711 | 10,214 | 17,835 | 4,758 | 13,077 | 1,856 | 1,362 | 248 | 182 | 23 |
| (³) | 870 | 908 | 1,987 | 37,949 | 25,648 | 1,002 | 2,962 | 1,246 | 1,716 | 495 | 222 | 146 | 66 | 24 |
| (³) | 1,953 | 1,059 | 9,654 | 87,813 | 69,319 | 4,555 | 10,650 | 4,006 | 6,644 | 1,614 | 942 | 256 | 149 | 25 |
| 99,577 | 11,834 | 7,370 | 68,950 | 615,141 | 433,436 | 30,074 | 91,969 | 31,458 | 60,511 | 11,323 | 982 | 1,563 | 136 | 26 |
| 247,373 | 23,706 | 38,951 | 55,261 | 1,574,915 | 1,011,629 | 89,191 | 136,190 | 22,595 | 113,595 | 19,637 | 272 | 4,528 | 63 | 27 |
| 2,322 | 1,280 | 929 | 2,264 | 47,441 | 35,284 | 2,959 | 4,938 | 650 | 4,288 | 465 | 229 | 230 | 113 | 28 |
| 32,785 | 3,461 | 5,197 | 8,307 | 224,132 | 144,818 | 10,967 | 14,991 | 478 | 14,513 | 3,647 | 261 | 748 | 54 | 29 |
| 138,635 | 5,809 | 18,282 | 37,079 | 910,553 | 596,058 | 47,735 | 79,964 | 19,528 | 60,436 | 6,818 | 161 | 2,063 | 49 | 30 |
| (³) | 1,542 | 1,182 | 1,675 | 44,406 | 31,598 | 4,058 | 4,532 | 917 | 4,026 | 880 | 388 | 269 | 119 | 31 |
| (³) | 985 | 714 | 286 | 26,602 | 19,047 | 1,585 | 2,570 | 6 | 2,564 | 483 | 328 | 169 | 115 | 32 |
| 1,163 | 4,850 | 3,029 | 1,432 | 106,741 | 75,814 | 7,747 | 9,476 | 571 | 8,905 | 3,212 | 652 | 356 | 72 | 33 |
| 71,409 | 5,779 | 9,618 | 4,218 | 215,040 | 109,010 | 14,140 | 19,719 | 445 | 19,274 | 4,132 | 802 | 693 | 135 | 34 |
| 134,563 | 16,414 | 18,534 | 79,867 | 1,103,667 | 746,996 | 73,743 | 120,473 | 33,294 | 87,179 | 13,911 | 325 | 3,015 | 70 | 35 |
| 105,122 | 5,385 | 10,381 | 20,775 | 541,840 | 337,367 | 45,293 | 52,669 | 7,807 | 44,862 | 4,614 | 185 | 1,512 | 61 | 36 |
| 4,634 | 3,898 | 2,787 | 7,091 | 126,690 | 90,138 | 8,458 | 13,160 | 1,400 | 11,760 | 2,606 | 433 | 455 | 76 | 37 |
| 6,319 | 3,008 | 4,166 | 11,470 | 168,714 | 118,979 | 9,126 | 15,575 | 3,791 | 11,784 | 1,457 | 183 | 530 | 67 | 38 |
| 18,488 | 4,123 | 1,200 | 40,531 | 266,423 | 200,512 | 10,866 | 39,069 | 20,296 | 18,773 | 5,234 | 1,315 | 518 | 130 | 39 |
| 1,296,367 | 107,452 | 50,839 | 1,088,397 | 10,197,344 | 7,801,797 | 474,426 | 1,806,471 | 901,365 | 905,106 | 253,160 | 1,863 | 20,187 | 149 | 40 |
| 14,621 | 3,453 | 1,973 | 13,438 | 155,475 | 110,162 | 7,909 | 17,326 | 7,588 | 9,738 | 3,805 | 960 | 402 | 101 | 41 |
| (³) | 31,630 | 4,461 | 418,538 | 3,416,809 | 2,639,988 | 173,412 | 736,687 | 418,257 | 318,430 | 61,798 | 1,771 | 4,115 | 118 | 42 |
| (³) | 12,893 | 9,442 | 127,960 | 1,039,504 | 805,927 | 58,161 | 204,993 | 98,817 | 106,176 | 28,822 | 1,352 | 3,033 | 142 | 43 |
| 720,614 | 59,476 | 34,963 | 528,461 | 5,585,556 | 4,245,720 | 234,944 | 847,465 | 376,703 | 470,762 | 158,735 | 2,096 | 12,637 | 167 | 44 |
| 379,982 | 31,320 | 46,626 | 246,092 | 2,895,285 | 2,101,849 | 158,552 | 435,695 | 189,339 | 246,356 | 50,544 | 816 | 6,198 | 100 | 45 |
| 37,421 | 2,169 | 3,548 | 29,596 | 189,523 | 111,023 | 42,304 | 66,660 | 20,060 | 46,600 | 2,909 | 476 | 537 | 88 | 46 |
| (³) | 691 | 1,206 | 3,587 | 51,942 | 40,122 | 1,383 | 5,138 | 1,684 | 3,454 | 475 | 171 | 162 | 58 | 47 |
| (³) | 6,506 | 7,867 | 49,901 | 560,599 | 453,101 | 26,489 | 76,279 | 40,605 | 35,674 | 10,134 | 1,529 | 969 | 146 | 48 |
| 31,144 | 3,383 | 5,487 | 23,151 | 335,759 | 253,250 | 12,447 | 35,645 | 13,383 | 22,262 | 5,457 | 650 | 692 | 83 | 49 |
| 134,824 | 8,658 | 8,696 | 84,847 | 876,934 | 649,569 | 39,159 | 150,391 | 67,700 | 82,691 | 22,840 | 1,658 | 1,575 | 114 | 50 |
| 25,603 | 5,242 | 11,329 | 17,892 | 385,945 | 287,366 | 13,078 | 42,600 | 20,276 | 22,324 | 3,938 | 308 | 1,182 | 92 | 51 |
| 100,836 | 2,283 | 6,053 | 35,119 | 423,811 | 267,832 | 20,813 | 53,285 | 23,227 | 30,058 | 3,823 | 420 | 748 | 82 | 52 |
| (³) | 2,388 | 2,440 | 1,999 | 70,772 | 39,586 | 2,879 | 5,697 | 2,404 | 3,293 | 968 | 414 | 334 | 143 | 53 |
| 150,414 | 22,607 | 20,102 | 167,669 | 1,699,304 | 1,353,316 | 64,173 | 268,899 | 181,063 | 87,836 | 38,528 | 1,334 | 4,186 | 145 | 54 |
| 232 | 1,041 | 678 | 2,953 | 34,778 | 24,531 | 2,495 | 4,131 | 1,120 | 3,011 | 366 | 237 | 178 | 115 | 55 |
| 276 | 1,291 | 326 | 2,350 | 25,699 | 17,656 | 2,502 | 4,417 | 830 | 3,587 | 414 | 264 | 183 | 116 | 56 |
| 149,906 | 18,796 | 18,717 | 132,045 | 1,569,895 | 1,253,604 | 56,360 | 225,930 | 149,817 | 76,113 | 37,061 | 1,523 | 3,572 | 147 | 57 |
| - | 1,329 | 277 | 30,144 | 62,407 | 52,616 | 2,496 | 33,901 | 29,278 | 4,623 | 644 | 566 | 209 | 184 | 58 |
| - | 150 | 104 | 177 | 6,525 | 4,909 | 320 | 520 | 18 | 502 | 43 | 149 | 44 | 153 | 59 |

TABLE 3. Selected Statistics

| | Division and State | Establishments (number) | | | | Employees (number) | | | Man-hours worked by production, development, and exploration workers (1,000) | Principal expenses (\$1,000) | | | | |
|--------------------------|--|-------------------------|--------------------------------------|--|---|--------------------|--|---------------------------------|--|------------------------------|---|---------------------------------|---|--|
| | | Total | With 20 or more em- ployees | Including mining opera- tions | Including prepa- ration plants | Total | Production, develop- ment, and exploration workers | Other employees ¹ | | Total | Wages and salaries | | Supplies and purchases for resale | |
| | | | | | | | | | | | Production, development, and explora- tion workers | Other employees ¹ | | |
| INCLUDED IN MANUFACTURES | | | | | | | | | | | | | | |
| 1 | New England..... | 100 | 20 | 100 | 31 | 2,451 | 2,228 | 223 | 4,681 | 21,558 | 10,486 | 1,545 | 28,409 | |
| 2 | Maine..... | 19 | 6 | 19 | 5 | 301 | 284 | 17 | 556 | 2,056 | 1,249 | 81 | 2,638 | |
| 3 | New Hampshire..... | 7 | 1 | 7 | 1 | 123 | 103 | 20 | 212 | 1,827 | 566 | 176 | 2,911 | |
| 4 | Vermont..... | 17 | 4 | 17 | 13 | 1,218 | 1,117 | 101 | 2,441 | 9,298 | 4,763 | 549 | 23,443 | |
| 5 | Massachusetts..... | 30 | 7 | 30 | 9 | 567 | 483 | 84 | 988 | 6,257 | 2,529 | 735 | 22,681 | |
| 6 | Rhode Island..... | 2 | - | 2 | 1 | 5 | 4 | 1 | 8 | 37 | 18 | 4 | 215 | |
| 7 | Connecticut..... | 25 | 2 | 25 | 2 | 237 | 237 | - | 474 | 2,083 | 1,361 | - | 2,721 | |
| 8 | Middle Atlantic..... | 242 | 42 | 242 | 38 | 2,923 | 2,855 | 68 | 5,736 | 27,837 | 14,273 | 434 | 212,820 | |
| 9 | New York..... | 72 | 10 | 72 | 12 | 776 | 762 | 14 | 1,511 | 7,753 | 3,850 | 51 | 23,802 | |
| 10 | New Jersey..... | 25 | 2 | 25 | - | 318 | 318 | - | 640 | 2,278 | 1,545 | - | 2,733 | |
| 11 | Pennsylvania..... | 145 | 30 | 145 | 26 | 1,829 | 1,775 | 54 | 3,585 | 17,806 | 8,878 | 383 | 28,285 | |
| 12 | East North Central..... | 392 | 47 | 392 | 51 | 4,355 | 4,120 | 235 | 8,202 | 38,273 | 19,921 | 1,594 | 215,760 | |
| 13 | Ohio..... | 163 | 18 | 163 | 6 | 1,625 | 1,562 | 63 | 3,093 | 14,580 | 7,692 | 436 | 26,278 | |
| 14 | Indiana..... | 53 | 12 | 53 | 15 | 1,447 | 1,319 | 128 | 2,626 | 11,777 | 6,138 | 879 | 23,311 | |
| 15 | Illinois..... | 74 | 6 | 74 | 1 | 632 | 632 | - | 1,252 | 5,554 | 2,976 | - | 3,977 | |
| 16 | Michigan..... | 51 | 5 | 51 | 4 | 293 | 290 | 3 | 580 | 2,939 | 1,508 | 13 | 3,977 | |
| 17 | Wisconsin..... | 51 | 6 | 51 | 25 | 358 | 317 | 41 | 651 | 3,423 | 1,607 | 266 | 23,334 | |
| 18 | West North Central..... | 216 | 29 | 216 | 20 | 2,286 | 2,096 | 190 | 4,388 | 20,275 | 9,446 | 1,312 | 27,871 | |
| 19 | Minnesota..... | 31 | 6 | 31 | 5 | 431 | 348 | 83 | 781 | 3,632 | 1,715 | 608 | 23,144 | |
| 20 | Iowa..... | 48 | 7 | 48 | 1 | 304 | 304 | - | 616 | 3,302 | 1,536 | - | 2,757 | |
| 21 | Missouri..... | 71 | 9 | 71 | 6 | 1,017 | 945 | 72 | 1,970 | 9,272 | 4,102 | 481 | 23,725 | |
| 22 | North Dakota..... | 4 | - | 4 | - | 18 | 18 | - | 37 | 138 | 74 | - | 264 | |
| 23 | South Dakota..... | 10 | 3 | 10 | 2 | 172 | 145 | 27 | 309 | 1,394 | 660 | 197 | 23,496 | |
| 24 | Nebraska..... | 9 | 1 | 9 | 1 | 72 | 72 | - | 144 | 616 | 397 | - | 2,219 | |
| 25 | Kansas..... | 43 | 3 | 43 | 5 | 272 | 264 | 8 | 531 | 1,921 | 962 | 26 | 2,928 | |
| 26 | South Atlantic..... | 257 | 35 | 257 | 36 | 3,232 | 3,019 | 213 | 5,917 | 25,123 | 11,809 | 1,135 | 210,850 | |
| 27 | Delaware, Maryland, and District of Columbia..... | 28 | 4 | 28 | 1 | 406 | 406 | - | 810 | 3,331 | 1,495 | - | 2,1835 | |
| 28 | Virginia..... | 41 | 9 | 41 | 5 | 594 | 567 | 27 | 1,142 | 4,142 | 2,353 | 103 | 21,663 | |
| 29 | West Virginia..... | 13 | 2 | 13 | - | 133 | 133 | - | 267 | 1,529 | 749 | - | 2,780 | |
| 30 | North Carolina..... | 57 | 2 | 57 | 5 | 492 | 458 | 34 | 803 | 3,018 | 1,490 | 194 | 21,253 | |
| 31 | South Carolina..... | 26 | 1 | 26 | 1 | 103 | 100 | 3 | 204 | 874 | 482 | 14 | 2,367 | |
| 32 | Georgia..... | 52 | 14 | 52 | 24 | 1,328 | 1,179 | 149 | 2,339 | 10,210 | 4,426 | 824 | 23,747 | |
| 33 | Florida..... | 40 | 3 | 40 | - | 176 | 176 | - | 352 | 2,019 | 814 | - | 2,1205 | |
| 34 | East South Central..... | 115 | 21 | 115 | 11 | 1,505 | 1,404 | 101 | 2,749 | 11,085 | 5,521 | 322 | 24,645 | |
| 35 | Kentucky..... | 25 | 1 | 25 | 2 | 106 | 106 | - | 208 | 970 | 472 | - | 2,498 | |
| 36 | Tennessee..... | 25 | 7 | 25 | 6 | 675 | 604 | 71 | 1,152 | 4,234 | 2,042 | 222 | 21,427 | |
| 37 | Alabama..... | 45 | 11 | 45 | 3 | 617 | 587 | 30 | 1,190 | 4,955 | 2,589 | 100 | 22,212 | |
| 38 | Mississippi..... | 20 | 2 | 20 | - | 107 | 107 | - | 199 | 926 | 418 | - | 2,508 | |
| 39 | West South Central..... | 192 | 19 | 192 | 13 | 1,396 | 1,315 | 81 | 2,720 | 12,608 | 5,784 | 219 | 26,446 | |
| 40 | Arkansas..... | 30 | 2 | 30 | 3 | 194 | 192 | 2 | 372 | 1,828 | 844 | 7 | 2,971 | |
| 41 | Louisiana..... | 19 | - | 19 | - | 35 | 35 | - | 73 | 451 | 172 | - | 2,279 | |
| 42 | Oklahoma..... | 28 | 1 | 28 | 4 | 156 | 154 | 2 | 302 | 1,326 | 692 | 7 | 2,614 | |
| 43 | Texas..... | 115 | 16 | 115 | 6 | 1,011 | 934 | 77 | 1,973 | 9,003 | 4,076 | 205 | 24,582 | |
| 44 | Mountain..... | 148 | 7 | 148 | 16 | 1,095 | 1,076 | 19 | 2,152 | 10,344 | 5,503 | 83 | 24,718 | |
| 45 | Montana..... | 11 | - | 11 | - | 29 | 29 | - | 56 | 280 | 157 | - | 2,123 | |
| 46 | Idaho..... | 10 | - | 10 | - | 93 | 93 | - | 185 | 625 | 376 | - | 2,249 | |
| 47 | Wyoming..... | 9 | - | 9 | - | 28 | 28 | - | 54 | 337 | 159 | - | 2,178 | |
| 48 | Colorado..... | 39 | 1 | 39 | 5 | 171 | 169 | 2 | 339 | 1,570 | 902 | 9 | 2,642 | |
| 49 | New Mexico..... | 16 | 2 | 16 | 2 | 141 | 136 | 5 | 269 | 1,259 | 700 | 25 | 2,533 | |
| 50 | Arizona..... | 30 | 2 | 30 | 6 | 345 | 337 | 8 | 681 | 2,877 | 1,581 | 28 | 21,247 | |
| 51 | Utah..... | 21 | 1 | 21 | 2 | 137 | 134 | 3 | 269 | 1,286 | 762 | 18 | 2,505 | |
| 52 | Nevada..... | 12 | 1 | 12 | 1 | 151 | 150 | 1 | 299 | 2,110 | 866 | 3 | 21,241 | |
| 53 | Pacific..... | 219 | 24 | 219 | 16 | 2,186 | 2,155 | 31 | 4,293 | 22,251 | 10,935 | 196 | 210,823 | |
| 54 | Washington..... | 46 | 2 | 46 | 6 | 262 | 252 | 10 | 487 | 2,153 | 1,317 | 29 | 2,796 | |
| 55 | Oregon..... | 25 | - | 25 | - | 134 | 134 | - | 270 | 1,162 | 608 | - | 2,554 | |
| 56 | California..... | 140 | 22 | 140 | 10 | 1,738 | 1,717 | 21 | 3,434 | 18,454 | 8,773 | 167 | 29,228 | |
| 57 | Alaska..... | 3 | - | 3 | - | 28 | 28 | - | 55 | 213 | 137 | - | 2,276 | |
| 58 | Hawaii..... | 5 | - | 5 | - | 24 | 24 | - | 47 | 269 | 100 | - | 2,169 | |

Note: For explanation of column captions, see Introduction.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of purchased fuels and electric energy and contract work are included with the cost of supplies and purchases for resale.

by Geographic Area: 1963—Continued

| Principal expenses—Con. (\$1,000) | | | | Value of shipments and receipts ⁴ | Value added in mining | Purchased machinery installed ¹ | Capital expenditures (\$1,000) | | | Energy used—kwh equivalent ¹ | | Horsepower rating of power equipment ⁵ | | |
|-----------------------------------|------------------|---------------------------|------------------|--|-----------------------|--|--------------------------------|--|---|---|-----------------------|---|-----------------------|----|
| Minerals received for preparation | Purchased fuels | Purchased electric energy | Contract work | | | | Total ¹ | Development and exploration of mineral property ⁵ | Plant and other construction, machinery, and equipment ¹ | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (\$1,000) | | | | (million) | (1,000) | (1,000) | | |
| 391 | ² 246 | ² 361 | ² 120 | 34,576 | 25,163 | 729 | 913 | (NA) | 913 | 24 | 55 | (NA) | (NA) | 1 |
| 391 | ² 51 | ² 53 | ² 112 | 2,879 | 2,182 | 241 | 200 | (NA) | 290 | 24 | 55 | (NA) | (NA) | 2 |
| | ² 101 | ² 220 | 27 | 2,568 | 1,503 | 494 | 528 | (NA) | 528 | | | (NA) | (NA) | 3 |
| | ² 94 | ² 85 | | 11,527 | 7,575 | 62 | 83 | (NA) | 83 | | | (NA) | (NA) | 4 |
| | (²) | (²) | | 11,374 | 8,402 | 2 | 12 | (NA) | 12 | | | (NA) | (NA) | 5 |
| - | (²) | (²) | ² 1 | 104 | 99 | | | (NA) | | | | (NA) | (NA) | 6 |
| - | (²) | (²) | | 6,124 | 5,402 | | | (NA) | | | | (NA) | (NA) | 7 |
| 65 | ² 101 | ² 91 | ² 53 | 59,272 | 46,180 | 186 | 224 | (NA) | 224 | 35 | 55 | (NA) | (NA) | 8 |
| - | ² 27 | ² 13 | ² 10 | 15,888 | 12,041 | 73 | 78 | (NA) | 78 | 9 | 78 | (NA) | (NA) | 9 |
| - | (²) | (²) | (²) | 4,885 | 4,152 | - | - | (NA) | - | (NA) | (NA) | (NA) | (NA) | 10 |
| 65 | ² 74 | ² 78 | ² 43 | 38,499 | 29,987 | 113 | 146 | (NA) | 146 | 26 | 50 | (NA) | (NA) | 11 |
| 140 | ² 344 | ² 405 | ² 109 | 80,213 | 63,611 | 646 | 802 | (NA) | 802 | 117 | 65 | (NA) | (NA) | 12 |
| - | ² 85 | ² 89 | (²) | 29,592 | 23,207 | 43 | 110 | (NA) | 110 | 117 | 65 | (NA) | (NA) | 13 |
| (³) | ² 153 | ² 240 | ² 56 | 20,569 | 15,837 | 482 | 510 | (NA) | 510 | | | (NA) | (NA) | 14 |
| - | ² 9 | ² 7 | ² 3 | 13,602 | 11,024 | 11 | 12 | (NA) | 12 | | | (NA) | (NA) | 15 |
| (³) | ² 97 | ² 69 | ² 50 | 11,089 | 9,672 | 110 | 170 | (NA) | 170 | | | (NA) | (NA) | 16 |
| - | | | | 5,361 | 3,871 | | | (NA) | | | | (NA) | (NA) | 17 |
| 1,315 | ² 81 | ² 239 | ² 11 | 46,714 | 37,235 | 349 | 387 | (NA) | 387 | 38 | 44 | (NA) | (NA) | 18 |
| (³) | ² 47 | ² 115 | ² 3 | 6,590 | 5,297 | 104 | 120 | (NA) | 120 | 19 | 65 | (NA) | (NA) | 19 |
| - | ² 8 | ² 1 | (²) | 10,498 | 8,752 | (⁶) | (⁶) | (NA) | (⁶) | 19 | 33 | (NA) | (NA) | 20 |
| 853 | ² 16 | ² 92 | ² 3 | 19,248 | 14,559 | 167 | 167 | (NA) | 167 | | | (NA) | (NA) | 21 |
| - | (²) | (²) | (²) | 387 | 323 | - | - | (NA) | - | | | (NA) | (NA) | 22 |
| (³) | ² 10 | ² 31 | (²) | 2,229 | 1,692 | 658 | 678 | (NA) | 678 | | | (NA) | (NA) | 23 |
| - | (²) | (²) | (²) | 1,519 | 1,300 | - | - | (NA) | - | | | (NA) | (NA) | 24 |
| - | (²) | (²) | ² 5 | 6,243 | 5,312 | 20 | 22 | (NA) | 22 | | | (NA) | (NA) | 25 |
| 857 | ² 97 | ² 267 | ² 108 | 45,606 | 33,521 | 630 | 724 | (NA) | 724 | 44 | 28 | (NA) | (NA) | 26 |
| - | ² 5 | ² 8 | ² 11 | 6,360 | 4,524 | 184 | 193 | (NA) | 193 | 12 | 25 | (NA) | (NA) | 27 |
| - | (²) | (²) | (²) | 8,621 | 6,944 | - | - | (NA) | - | | | (NA) | (NA) | 28 |
| 12 | ² 22 | ² 48 | ² 10 | 4,127 | 3,347 | 96 | 101 | (NA) | 101 | | | (NA) | (NA) | 29 |
| - | (²) | (²) | (²) | 4,911 | 3,582 | - | - | (NA) | - | | | (NA) | (NA) | 30 |
| 845 | ² 70 | ² 211 | ² 87 | 1,875 | 1,497 | 350 | 430 | (NA) | 430 | 32 | 30 | (NA) | (NA) | 31 |
| - | (²) | (²) | (²) | 12,998 | 8,118 | - | - | (NA) | - | (NA) | (NA) | (NA) | (NA) | 32 |
| - | | | | 6,714 | 5,509 | | | (NA) | | | | (NA) | (NA) | 33 |
| 447 | ² 23 | ² 123 | ² 4 | 21,180 | 16,020 | 638 | 720 | (NA) | 720 | 18 | 27 | (NA) | (NA) | 34 |
| - | (²) | (²) | (²) | 2,846 | 2,348 | 638 | 3 | (NA) | 3 | 18 | 27 | (NA) | (NA) | 35 |
| 447 | ² 23 | ² 123 | ² 4 | 6,511 | 4,563 | | 152 | (NA) | 152 | | | (NA) | (NA) | 36 |
| - | (²) | (²) | (²) | 9,885 | 7,679 | | 565 | (NA) | 565 | | | (NA) | (NA) | 37 |
| - | (²) | (²) | (²) | 1,938 | 1,430 | | - | (NA) | - | | | (NA) | (NA) | 38 |
| 64 | ² 19 | ² 50 | ² 26 | 34,349 | 27,751 | 46 | 53 | (NA) | 53 | 10 | 48 | (NA) | (NA) | 39 |
| - | (²) | ² 6 | (²) | 4,691 | 3,714 | 2 | 2 | (NA) | 2 | 1 | 25 | (NA) | (NA) | 40 |
| - | (²) | (²) | (²) | 825 | 546 | - | - | (NA) | - | | | (NA) | (NA) | 41 |
| 9 | ² 1 | ² 3 | (²) | 4,884 | 4,260 | 3 | 6 | (NA) | 6 | | | (NA) | (NA) | 42 |
| 55 | ² 18 | ² 41 | ² 26 | 23,949 | 19,231 | 41 | 45 | (NA) | 45 | 9 | 54 | (NA) | (NA) | 43 |
| 8 | ² 9 | ² 15 | ² 8 | 32,662 | 27,906 | 47 | 49 | (NA) | 49 | 4 | 49 | (NA) | (NA) | 44 |
| - | (²) | (²) | (²) | 1,184 | 1,061 | - | - | (NA) | - | 4 | 49 | (NA) | (NA) | 45 |
| - | (²) | (²) | (²) | 2,436 | 2,187 | - | - | (NA) | - | | | (NA) | (NA) | 46 |
| - | (²) | (²) | (²) | 856 | 678 | 7 | 7 | (NA) | 7 | | | (NA) | (NA) | 47 |
| 8 | ² 9 | ² 15 | ² 7 | 4,719 | 4,060 | 27 | 29 | (NA) | 29 | | | (NA) | (NA) | 48 |
| - | (²) | (²) | (²) | 4,187 | 3,654 | 13 | 13 | (NA) | 13 | 15 | 81 | (NA) | (NA) | 49 |
| - | (²) | (²) | (²) | 9,634 | 8,367 | | | | | | | (NA) | (NA) | 50 |
| - | (²) | (²) | (²) | 3,336 | 2,830 | | | | | | | (NA) | (NA) | 51 |
| - | (²) | (²) | (²) | 6,310 | 5,069 | | | | | | | (NA) | (NA) | 52 |
| 201 | ² 42 | ² 50 | ² 4 | 54,945 | 43,853 | 43 | 71 | (NA) | 71 | | | (NA) | (NA) | 53 |
| - | ² 6 | ² 5 | (²) | 5,573 | 4,768 | 4 | 6 | (NA) | 6 | 15 | 81 | (NA) | (NA) | 54 |
| - | (²) | (²) | (²) | 4,208 | 3,654 | - | - | (NA) | - | | | (NA) | (NA) | 55 |
| 201 | ² 36 | ² 45 | ² 1 | 43,848 | 34,360 | 39 | 65 | (NA) | 65 | | | (NA) | (NA) | 56 |
| - | (²) | (²) | (²) | 379 | 303 | - | - | (NA) | - | | | (NA) | (NA) | 57 |
| - | (²) | (²) | (²) | 937 | 768 | - | - | (NA) | - | | | (NA) | (NA) | 58 |

³The cost of minerals received for preparation is included with the cost of supplies and purchases for resale.

⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products.

⁵Excludes data for mining operations in manufacturing establishments.

⁶Figures for Iowa are included with those for South Dakota.

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments)

| Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|--|-------------------------------------|-------------------------|--|------------------------------|---|--|--|------------------------------|---|-------------------------|---|
| | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | Total | Performing manual labor | |
| | | | | | | | | | | | |
| All mineral operations: Including oil and gas extraction: | | | | | | | | | | | |
| 1963..... | 32,884 | 40,532 | 33,395 | 9,533 | 19,210,458 | 16,231,255 | 501,734 | 135,267 | 28,996 | 19,049 | 1,013,821 |
| 1958..... | 32,005 | 37,966 | 31,302 | 8,714 | 16,728,989 | 13,685,405 | 585,159 | 169,723 | 637,005 | 616,152 | 1,119,489 |
| 1954..... | 33,120 | 38,858 | 32,447 | 8,969 | 14,465,256 | 11,752,300 | 667,821 | 139,566 | 40,422 | 21,175 | 1,291,472 |
| 1939 ¹⁰ | 20,658 | 1125,023 | 22,162 | 5,450 | 3,432,804 | 2,679,828 | 774,130 | 82,259 | 16,040 | 7,068 | 1,287,852 |
| Excluding oil and gas extraction: | | | | | | | | | | | |
| 1963..... | 16,545 | 19,290 | 14,401 | 8,881 | 6,787,062 | 5,211,459 | 309,758 | 55,767 | 11,327 | 9,495 | 616,473 |
| 1958..... | 16,765 | 19,444 | 18,549 | 8,121 | 6,071,942 | 4,652,912 | 371,158 | 70,808 | 616,620 | 69,234 | 679,233 |
| 1954..... | 18,030 | 21,267 | 20,939 | 8,387 | 95,235,311 | 94,078,606 | 432,303 | 59,276 | 20,598 | 13,959 | 799,679 |
| 1939 ¹⁰ | 11,310 | 1113,794 | 13,557 | 4,716 | 1,772,973 | 1,437,355 | 625,134 | 45,105 | 8,310 | 5,215 | 1,022,824 |
| 1929 ¹⁰ | (NA) | 10,996 | 12,506 | (NA) | 2,392,831 | 1,955,804 | 812,220 | 53,331 | 4,897 | (NA) | (NA) |
| Metal mining: | | | | | | | | | | | |
| 1963..... | 1,308 | 1,614 | 1,465 | 539 | 1,835,665 | 1,418,217 | 62,182 | 15,028 | 1,035 | 866 | 125,663 |
| 1958..... | 2,024 | 2,351 | 2,174 | 687 | 1,561,506 | 1,180,216 | 70,750 | 20,832 | 61,968 | 61,298 | 136,242 |
| 1954..... | 3,127 | 3,668 | 3,527 | 1,141 | 91,372,117 | 91,084,142 | 82,715 | 18,495 | 3,759 | 2,931 | 170,497 |
| 1939 ¹⁰ | 1,886 | (NA) | 2,095 | 693 | 517,377 | 416,956 | 89,791 | 10,344 | 1,169 | 824 | 190,835 |
| 1929 ¹⁰ | (NA) | 1,799 | 2,007 | (NA) | 633,821 | 496,335 | 115,775 | 9,802 | 313 | (NA) | (NA) |
| Iron ores: | | | | | | | | | | | |
| 1963..... | 115 | 208 | 197 | 118 | 709,352 | 549,305 | 18,102 | 4,981 | 36 | 33 | 34,524 |
| 1958..... | 127 | 243 | 233 | 124 | 617,925 | 487,667 | 22,517 | 7,596 | 130 | 83 | 39,926 |
| 1954..... | 94 | 225 | 298 | 123 | 539,160 | 435,668 | 28,216 | 5,954 | 73 | 46 | 53,288 |
| 1939 ¹⁰ | 116 | (NA) | 196 | 44 | 150,871 | 133,390 | 20,377 | 2,274 | 32 | 14 | 38,513 |
| 1929 ¹⁰ | (NA) | 186 | 124 | (NA) | 197,335 | 167,127 | 28,623 | 2,490 | 9 | (NA) | (NA) |
| Copper ores: | | | | | | | | | | | |
| 1963..... | 118 | 160 | 152 | 49 | 544,239 | 417,089 | 21,372 | 5,114 | 109 | 84 | 45,319 |
| 1958 ¹⁰ | 112 | 148 | 140 | 36 | 374,428 | 266,485 | 20,898 | 6,744 | 104 | 69 | 41,021 |
| 1954 ¹⁰ | 179 | 212 | 201 | 48 | 409,911 | 334,876 | 21,544 | 6,269 | 184 | 145 | 46,676 |
| 1939 ¹⁰ | 35 | (NA) | 51 | 27 | 141,634 | 108,494 | 23,844 | 2,908 | - | - | 51,239 |
| 1929 ¹⁰ | (NA) | 143 | 180 | 45 | 283,517 | 221,690 | 44,502 | 3,465 | 76 | (NA) | (NA) |
| Lead and zinc ores: | | | | | | | | | | | |
| 1963..... | 163 | 205 | 196 | 54 | 119,785 | 84,373 | 7,822 | 1,600 | 88 | 79 | 14,781 |
| 1958 ¹⁰ | 226 | 288 | 275 | 69 | 103,843 | 73,679 | 8,728 | 2,499 | 212 | 141 | 16,734 |
| 1954..... | 411 | 520 | 491 | 141 | 140,132 | 107,409 | 13,592 | 2,974 | 450 | 343 | 27,554 |
| 1939 ¹⁰ | 208 | (NA) | 260 | 124 | 62,651 | 47,310 | 15,731 | 1,994 | 89 | 48 | 32,481 |
| 1929 ¹⁰ | (NA) | 303 | 375 | 188 | 112,428 | 84,793 | 25,907 | 1,818 | 78 | (NA) | (NA) |
| Lode gold and silver ores: | | | | | | | | | | | |
| 1963..... | 304 | 308 | 307 | 45 | 52,692 | 21,838 | 3,260 | 595 | 244 | 209 | 6,874 |
| 1958 ¹⁰ | 302 | 305 | 303 | 58 | 40,655 | 33,023 | 3,088 | 487 | 251 | 185 | 6,348 |
| 1954..... | 399 | 414 | 406 | 167 | 39,103 | 31,859 | 3,735 | 580 | 384 | 306 | 8,202 |
| 1939 ¹⁰ | 1,004 | (NA) | 1,038 | 365 | 105,780 | 82,863 | 21,847 | 2,034 | 631 | 492 | 50,577 |
| 1929 ¹⁰ | (NA) | 241 | 258 | 94 | 26,107 | 17,604 | 7,946 | 663 | 114 | (NA) | (NA) |
| Placer gold: | | | | | | | | | | | |
| 1963..... | 155 | 158 | 158 | 158 | 7,532 | 5,810 | 325 | 36 | 165 | 164 | 731 |
| 1958..... | 164 | 165 | 165 | 165 | 12,628 | 9,123 | 753 | 87 | 197 | 164 | 1,882 |
| 1954..... | 271 | 281 | 249 | 147 | 14,781 | 10,306 | 1,152 | 168 | 378 | 328 | 3,010 |
| 1939 ¹⁰ | 307 | (NA) | 340 | 339 | 28,027 | 21,935 | 3,228 | 477 | 260 | 167 | 8,088 |
| 1929 ¹⁰ | (NA) | 32 | 37 | (NA) | 3,779 | 2,582 | 578 | 90 | 18 | (NA) | (NA) |
| Bauxite: | | | | | | | | | | | |
| 1963..... | 10 | 17 | 11 | 7 | 20,478 | 17,464 | 414 | 138 | 6 | 6 | 751 |
| 1958..... | 12 | 29 | 23 | 8 | 17,374 | 15,430 | 502 | 203 | 7 | 6 | 905 |
| 1954..... | 12 | 25 | 20 | 9 | 16,029 | 12,827 | 661 | 191 | 2 | - | 1,288 |
| 1939 ¹⁴ | 10 | (NA) | 12 | 11 | 2,527 | 1,965 | 727 | 100 | - | - | 1,176 |
| 1929..... | (NA) | 9 | 11 | (NA) | 2,239 | 1,781 | 602 | 87 | 1 | (NA) | (NA) |
| Manganese ores: | | | | | | | | | | | |
| 1963..... | 16 | 17 | 11 | 8 | 2,804 | 2,348 | 180 | 44 | 4 | 3 | 351 |
| 1958..... | 182 | 186 | 176 | 68 | 34,330 | 20,014 | 1,792 | 307 | 209 | 128 | 3,475 |
| 1954..... | 319 | 367 | 360 | 63 | 27,016 | 18,118 | 2,266 | 338 | 458 | 386 | 4,293 |
| 1939 ¹⁴ | 26 | (NA) | 34 | 14 | 945 | 707 | 504 | 41 | 12 | 4 | 959 |
| 1929 ¹⁴ | (NA) | 19 | 21 | (NA) | 1,184 | 967 | 354 | 35 | 4 | (NA) | (NA) |
| Tungsten ores and ferroalloy ores, n.e.c.: | | | | | | | | | | | |
| 1963..... | 33 | 41 | 39 | 9 | 80,915 | 64,059 | 2,447 | 431 | 15 | 14 | 4,516 |
| 1958..... | 107 | 108 | 101 | 44 | 72,105 | 54,241 | 2,588 | 751 | 129 | 78 | 4,860 |
| 1954..... | 655 | 719 | 682 | 234 | 109,921 | 89,281 | 4,572 | 902 | 957 | 828 | 10,829 |
| 1939..... | 56 | (NA) | 69 | 39 | 18,812 | 15,698 | 1,664 | 284 | 40 | 27 | 3,727 |
| Metal mining services: | | | | | | | | | | | |
| 1963..... | 82 | 83 | (X) | (X) | 32,357 | 24,736 | 1,891 | 315 | 37 | 28 | 4,018 |
| 1958..... | 91 | 95 | (X) | (X) | 32,384 | 22,862 | 1,973 | 211 | 85 | 50 | 4,274 |
| 1954..... | 114 | 114 | (X) | (X) | 38,539 | 26,703 | 2,863 | 196 | 82 | 55 | 6,519 |
| 1939..... | 69 | 69 | (X) | (X) | 2,368 | 1,822 | 637 | 58 | 49 | 28 | 1,344 |

See footnotes at end of table.

and Industry: 1963 and Earlier Years

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed ⁵ (\$1,000) | Capital expenditures (\$1,000) | | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|--|------------------------------|--|------------------------------|--|----------------------------|---|--|---|--|---------------------------------------|---------|---|--|--|
| Wages and salaries | | Supplies and purchases for resale ² | Purchased fuels ⁵ | Purchased electric energy ⁵ | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | | |
| 2,773,193 | 1,069,794 | 2,784,972 | 295,396 | 266,479 | 1,918,765 | 1,127,023 | 1,431,662 | 506,320 | 1,136,103 | 193,473 | 436,810 | 52,772 | 1 | |
| 2,702,484 | 1,133,124 | 2,465,818 | 275,727 | 202,547 | 1,862,759 | 1,019,892 | 1,144,342 | 466,585 | 1,097,376 | 898,305 | 406,110 | (NA) | 2 | |
| 2,646,825 | 819,276 | 2,023,730 | 208,159 | 160,888 | 1,829,153 | 1,216,036 | 1,309,614 | 314,040 | 993,780 | 110,646 | 373,770 | 41,045 | 3 | |
| 970,546 | 204,225 | 307,980 | 60,965 | 69,245 | 220,984 | (NA) | (NA) | 27,435 | 241,135 | 21,962 | 224,898 | 14,160 | 4 | |
| 1,680,145 | 418,131 | 1,209,348 | 159,880 | 176,725 | 277,252 | 478,950 | 89,400 | 177,813 | 389,828 | 54,882 | 107,466 | 24,463 | 5 | |
| 1,691,246 | 443,679 | 1,063,069 | 145,075 | 149,214 | 297,564 | 364,751 | 65,606 | 206,846 | 300,486 | 39,623 | 95,750 | (NA) | 6 | |
| 1,670,040 | 333,209 | 854,713 | 111,265 | 125,871 | 270,119 | 350,969 | 79,656 | 155,148 | 224,230 | 40,842 | 88,657 | 20,941 | 7 | |
| 750,111 | 106,278 | 220,789 | 34,718 | 62,144 | 17,966 | (NA) | (NA) | 16,217 | 52,666 | 9,451 | 77,131 | 9,059 | 8 | |
| 1,099,895 | 139,023 | 298,198 | 49,146 | 71,769 | 17,914 | 86,733 | 89,646 | (NA) | (NA) | (NA) | 133,790 | 7,584 | 9 | |
| 383,671 | 131,536 | 331,116 | 39,448 | 51,395 | 110,801 | 96,480 | 65,068 | 83,892 | 75,222 | 6,762 | 31,911 | 6,115 | 10 | |
| 355,031 | 131,161 | 279,966 | 37,979 | 36,965 | 132,912 | 70,004 | 44,711 | 97,599 | 65,705 | 7,118 | 27,800 | (NA) | 11 | |
| 358,002 | 110,733 | 231,678 | 27,734 | 32,662 | 117,173 | 87,454 | 64,941 | 84,589 | 66,150 | 6,748 | 21,677 | 5,236 | 12 | |
| 127,111 | 26,806 | 68,719 | 10,400 | 18,686 | 2,616 | (NA) | (NA) | 5,409 | 14,775 | 3,342 | 14,628 | 2,264 | 13 | |
| 178,319 | 27,484 | 93,951 | 17,098 | 18,975 | 7,462 | 25,391 | 59,682 | (NA) | (NA) | (NA) | 24,727 | 1,736 | 14 | |
| 112,781 | 48,790 | 120,388 | 23,341 | 17,829 | 55,510 | 27,889 | 23,251 | 51,734 | 19,063 | 2,596 | 17,725 | 2,646 | 15 | |
| 116,319 | 52,724 | 75,649 | 17,440 | 13,735 | 29,442 | 18,483 | 10,845 | 11,992 | 18,549 | 1,217 | 11,106 | (NA) | 16 | |
| 119,688 | 37,221 | 75,866 | 9,549 | 13,767 | 47,515 | 36,994 | 23,515 | 32,790 | 27,955 | 718 | 5,928 | 1,795 | 17 | |
| 27,431 | 5,895 | 10,791 | 2,280 | 4,174 | 236 | (NA) | (NA) | 784 | 3,550 | 210 | 3,246 | 600 | 18 | |
| 41,049 | 6,385 | 18,717 | 5,332 | 4,607 | 1,552 | 4,016 | 10,223 | (NA) | (NA) | (NA) | 7,763 | 501 | 19 | |
| 142,395 | 44,912 | 108,493 | 7,961 | 17,788 | 30,537 | 45,590 | 23,145 | 24,718 | 39,021 | 194 | 8,242 | 1,886 | 20 | |
| 106,357 | 37,144 | 86,587 | 9,744 | 9,476 | 22,024 | 19,191 | 9,720 | 14,835 | 16,534 | 3,785 | 10,239 | (NA) | 21 | |
| 98,491 | 37,574 | 72,822 | 8,576 | 6,278 | 43,873 | 23,821 | 23,750 | 35,265 | 21,955 | 1,240 | 9,255 | 1,546 | 22 | |
| 34,486 | 8,078 | 23,562 | 4,168 | 4,899 | 511 | (NA) | (NA) | 1,822 | 2,577 | 1,507 | 6,693 | 753 | 23 | |
| 73,200 | 10,136 | 43,995 | 9,210 | 6,027 | 2,595 | 13,084 | 22,151 | (NA) | (NA) | (NA) | 12,200 | 702 | 24 | |
| 37,935 | 11,402 | 22,848 | 933 | 5,734 | 3,588 | 4,272 | 6,919 | 1,083 | 3,579 | 315 | 1,082 | 435 | 25 | |
| 39,001 | 15,396 | 21,185 | 1,058 | 5,869 | 2,952 | 2,920 | 4,160 | 1,845 | 2,502 | 112 | 1,153 | (NA) | 26 | |
| 53,676 | 17,687 | 24,673 | 1,409 | 6,838 | 6,080 | 5,942 | 6,509 | 2,054 | 2,509 | 448 | 1,641 | 750 | 27 | |
| 20,253 | 5,084 | 10,580 | 848 | 3,550 | 363 | (NA) | (NA) | 390 | 778 | 339 | 1,556 | 353 | 28 | |
| 39,191 | 5,053 | 18,344 | 1,536 | 6,102 | 1,653 | 3,752 | 8,172 | (NA) | (NA) | (NA) | 2,964 | 358 | 29 | |
| 18,256 | 4,407 | 10,325 | 643 | 1,594 | 1,458 | 1,653 | 4,130 | 391 | 1,244 | 432 | 461 | 140 | 30 | |
| 15,549 | 2,655 | 7,188 | 774 | 1,227 | 580 | 1,065 | 1,116 | 871 | 651 | 246 | 457 | (NA) | 31 | |
| 15,603 | 2,910 | 7,213 | 1,677 | 991 | 1,694 | 1,361 | 1,630 | 728 | 590 | 301 | 723 | 171 | 32 | |
| 33,321 | 4,973 | 16,261 | 1,595 | 3,921 | 1,140 | (NA) | (NA) | 1,890 | 3,588 | 615 | 1,830 | 335 | 33 | |
| 12,983 | 1,738 | 5,934 | 558 | 1,317 | 694 | 1,509 | 5,641 | (NA) | (NA) | (NA) | 1,130 | 99 | 34 | |
| 1,763 | 371 | 1,000 | 576 | 423 | 340 | 372 | 383 | 265 | 280 | 61 | 439 | 100 | 35 | |
| 4,204 | 809 | 2,074 | 1,064 | 431 | 247 | 617 | 215 | 244 | 374 | 95 | 579 | (NA) | 36 | |
| 5,642 | 1,107 | 2,956 | 1,664 | 661 | 1,872 | 665 | 254 | 282 | 438 | 369 | 718 | 149 | 37 | |
| 5,632 | 1,162 | 3,780 | 700 | 1,471 | 141 | (NA) | (NA) | 135 | 3,348 | 442 | 510 | 110 | 38 | |
| 970 | 260 | 590 | 1 | 604 | 2 | 359 | 76 | (NA) | (NA) | (NA) | 69 | 20 | 39 | |
| 2,285 | 1,157 | 660 | 287 | 185 | 1,228 | 462 | 30 | 43 | 196 | - | 234 | 29 | 40 | |
| 2,290 | 1,316 | 728 | 258 | 172 | 445 | 1,483 | 24 | 107 | 1,247 | 30 | 151 | (NA) | 41 | |
| 2,529 | 1,052 | 789 | 239 | 134 | 1,603 | 356 | 24 | 11 | 271 | 4 | 170 | 49 | 42 | |
| 578 | 241 | 269 | 187 | 60 | 46 | (NA) | (NA) | 20 | 173 | 7 | 270 | 13 | 43 | |
| 513 | 277 | 216 | 122 | 38 | 82 | 96 | 13 | (NA) | (NA) | (NA) | (NA) | 6 | 44 | |
| 820 | 318 | 398 | 66 | 92 | 105 | 181 | 71 | 38 | 234 | 43 | 31 | 20 | 45 | |
| 7,244 | 1,792 | 5,216 | 1,101 | 677 | 2,807 | 1,085 | 469 | 253 | 1,113 | 355 | 582 | (NA) | 46 | |
| 7,643 | 1,649 | 5,087 | 721 | 477 | 3,573 | 2,304 | 607 | 708 | 1,366 | 583 | 477 | 106 | 47 | |
| 483 | 83 | 161 | 37 | 40 | - | (NA) | (NA) | 3 | 29 | 6 | 37 | 5 | 48 | |
| 392 | 88 | 140 | 32 | 39 | 6 | 12 | 40 | (NA) | (NA) | (NA) | 73 | 2 | 49 | |
| 14,411 | 4,816 | 14,976 | 456 | 2,020 | 3,577 | 1,272 | 2,292 | 1,220 | 1,848 | 85 | 519 | 137 | 50 | |
| 12,211 | 5,464 | 10,601 | 570 | 1,586 | 3,725 | 1,073 | 834 | 2,402 | 981 | 138 | 340 | (NA) | 51 | |
| 23,687 | 5,556 | 18,148 | 1,290 | 2,042 | 5,244 | 6,171 | 2,578 | 4,601 | 4,211 | 865 | 651 | 263 | 52 | |
| 2,613 | 815 | 2,395 | 143 | 478 | 98 | (NA) | (NA) | 205 | 307 | 144 | 85 | 51 | 53 | |
| 11,485 | 2,438 | 5,209 | 1,204 | 73 | 393 | 3,784 | (X) | 102 | 2,682 | 255 | 1,531 | 185 | 54 | |
| 10,624 | 1,473 | 7,657 | 1,271 | 60 | 432 | 1,365 | (X) | 34 | 1,155 | 74 | 1,534 | (NA) | 55 | |
| 13,933 | 1,335 | 10,412 | 1,273 | 133 | 509 | 2,049 | (X) | 523 | 1,522 | 355 | 1,558 | 152 | 56 | |
| 853 | 132 | 382 | 144 | 20 | (NA) | (NA) | (X) | (NA) | (NA) | (NA) | (NA) | 23 | 57 | |

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments)

| 1963 | | | | | | | | | | | | |
|-------------------------------------|--|---------------------------------|-------------------------|--|------------------------------|---|------------------------------------|--|------------------------------|---|-------------------------|---|
| | Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
| | | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | | Total | Performing manual labor | |
| Metal mining--Continued | | | | | | | | | | | | |
| Mercury ores: | | | | | | | | | | | | |
| 1 | 1963..... | 49 | 49 | 49 | 38 | 3,658 | 2,569 | 279 | 37 | 28 | 27 | 610 |
| 2 | 1958 ¹⁰ | 77 | 79 | 78 | 72 | 168,607 | 7,093 | 569 | 83 | 78 | 62 | 1,223 |
| 3 | 1954 ¹⁰ | 81 | 87 | 87 | 75 | 164,519 | 3,355 | 372 | 81 | 125 | 110 | 84 |
| 4 | 1939 ¹⁰ | 72 | (NA) | 69 | 60 | 1,830 | 1,425 | 621 | 81 | 51 | 41 | 1,424 |
| 5 | 1929 ¹⁰ | (NA) | 40 | 40 | (NA) | 2,820 | 2,042 | 1,029 | 88 | 10 | (NA) | (NA) |
| Titanium ores: | | | | | | | | | | | | |
| 6 | 1963..... | 7 | 8 | 8 | 8 | 22,033 | 15,021 | 846 | 151 | - | - | 1,721 |
| 7 | 1958..... | 9 | 11 | 10 | 11 | 16,531 | 12,746 | 706 | 256 | - | - | 1,234 |
| 8 | 1954..... | 7 | 10 | 8 | 8 | 1612,750 | 11,134 | 568 | 275 | 1 | 1 | 1,261 |
| 9 | 1939..... | 3 | (NA) | 3 | 3 | 458 | 370 | 183 | 13 | - | - | 322 |
| Uranium-radium-vanadium ores: | | | | | | | | | | | | |
| 10 | 1963..... | 266 | 335 | 318 | 37 | 17244,738 | 190,629 | 5,114 | 1,551 | 292 | 208 | 11,251 |
| 11 | 1958..... | 563 | 602 | 582 | 30 | 226,999 | 174,802 | 6,389 | 1,550 | 507 | 291 | 13,873 |
| 12 | 1954..... | 572 | 637 | 636 | 8 | (NA) | (NA) | 2,944 | 523 | 614 | 339 | 6,227 |
| 13 | 1939..... | 5 | (NA) | 8 | 6 | 1,472 | 1,043 | 378 | 63 | 5 | 3 | 879 |
| Metallic ores, n.e.c.: | | | | | | | | | | | | |
| 14 | 1963..... | 25 | 25 | 19 | 8 | 172,407 | 1,598 | 130 | 35 | 11 | 11 | 216 |
| 15 | 1958..... | 66 | 66 | 62 | 9 | 163,018 | 1,847 | 187 | 50 | 59 | 41 | 343 |
| 16 | 1954..... | 44 | 47 | 45 | 9 | 161,325 | 794 | 98 | 20 | 40 | 34 | 207 |
| Anthracite mining: | | | | | | | | | | | | |
| 17 | 1963..... | 1,025 | 1,069 | 946 | 153 | 172,064 | 120,540 | 10,324 | 1,462 | 1,373 | 1,307 | 19,544 |
| 18 | 1958..... | 1,157 | 1,248 | 1,065 | 188 | 234,000 | 164,489 | 20,047 | 2,766 | 1,863 | 1,298 | 30,867 |
| 19 | 1954..... | 1,296 | 1,436 | 1,263 | 196 | 291,408 | 196,835 | 33,026 | 4,436 | 2,338 | 2,065 | 48,266 |
| 20 | 1939..... | 359 | (NA) | 518 | 163 | 201,126 | 154,023 | 83,112 | 5,480 | 301 | 161 | 124,462 |
| 21 | 1929..... | (NA) | 198 | 303 | (NA) | 384,854 | 320,756 | 142,801 | 8,370 | 38 | (NA) | (NA) |
| Anthracite: | | | | | | | | | | | | |
| 22 | 1963..... | 987 | 1,026 | 946 | 153 | 156,526 | 110,527 | 9,331 | 1,361 | 1,355 | 1,291 | 17,758 |
| 23 | 1958..... | 1,075 | 1,163 | 1,065 | 188 | 199,214 | 142,198 | 17,266 | 2,446 | 1,795 | 1,253 | 26,409 |
| 24 | 1954..... | 1,160 | 1,291 | 1,263 | 196 | 248,513 | 167,090 | 28,823 | 3,946 | 2,201 | 1,985 | 42,061 |
| 25 | 1939..... | 289 | (NA) | 518 | 163 | 189,648 | 146,418 | 80,429 | 5,284 | 232 | 139 | 120,085 |
| 26 | 1929..... | (NA) | 198 | 303 | (NA) | 384,854 | 320,756 | 142,801 | 8,370 | 38 | (NA) | (NA) |
| Anthracite mining services: | | | | | | | | | | | | |
| 27 | 1963..... | 41 | 43 | (X) | (X) | 15,538 | 10,013 | 993 | 101 | 18 | 16 | 1,786 |
| 28 | 1958..... | 84 | 85 | (X) | (X) | 34,786 | 22,291 | 2,781 | 320 | 68 | 45 | 4,458 |
| 29 | 1954..... | 144 | 145 | (X) | (X) | 42,895 | 29,745 | 4,203 | 490 | 137 | 80 | 6,205 |
| 30 | 1939..... | 71 | 71 | (X) | (X) | 11,478 | 7,605 | 2,683 | 196 | 69 | 22 | 4,377 |
| Bituminous coal and lignite mining: | | | | | | | | | | | | |
| 31 | 1963..... | 5,841 | 6,305 | 5,999 | 1,408 | 2,100,721 | 1,606,688 | 118,629 | 15,233 | 4,588 | 3,774 | 217,642 |
| 32 | 1958..... | 6,310 | 6,940 | 6,571 | 1,837 | 2,098,526 | 1,615,744 | 163,730 | 24,233 | 7,313 | 3,785 | 26,817 |
| 33 | 1954..... | 6,113 | 6,865 | 6,857 | 630 | 1,812,781 | 1,424,161 | 199,970 | 19,236 | 7,762 | 5,487 | 326,457 |
| 34 | 1939 ¹⁰ | 5,182 | (NA) | 5,847 | 365 | 731,427 | 610,674 | 370,944 | 19,834 | 4,676 | 3,409 | 545,702 |
| 35 | 1929 ¹⁰ | (NA) | 4,995 | 5,639 | (NA) | 966,694 | 819,976 | 458,835 | 23,686 | 2,983 | (NA) | (NA) |
| Bituminous coal: | | | | | | | | | | | | |
| 36 | 1963..... | 5,663 | 6,115 | 5,941 | 1,382 | 2,063,165 | 1,578,078 | 116,975 | 15,071 | 4,412 | 3,620 | 214,421 |
| 37 | 1958..... | 6,112 | 6,725 | 6,513 | 1,813 | 2,065,892 | 1,591,321 | 161,908 | 24,025 | 7,073 | 3,629 | 264,779 |
| 38 | 1954..... | 5,922 | 6,653 | 6,797 | 630 | 1,784,798 | 1,402,551 | 198,134 | 19,052 | 7,541 | 5,326 | 323,098 |
| 39 | 1939 ¹⁰ | 5,021 | (NA) | 5,716 | 365 | 727,358 | 607,318 | 369,265 | 19,690 | 4,497 | 3,271 | 542,310 |
| Lignite: | | | | | | | | | | | | |
| 40 | 1963..... | 52 | 59 | 58 | 26 | 13,981 | 11,830 | 441 | 71 | 45 | 45 | 884 |
| 41 | 1958..... | 53 | 58 | 58 | 24 | 11,035 | 9,309 | 437 | 73 | 57 | 38 | 844 |
| 42 | 1954..... | 56 | 60 | 60 | - | 10,387 | 9,093 | 505 | 69 | 57 | 43 | 901 |
| 43 | 1939..... | 130 | (NA) | 131 | - | 3,457 | 2,879 | 1,480 | 115 | 144 | 118 | 3,027 |
| Bituminous coal mining services: | | | | | | | | | | | | |
| 44 | 1963..... | 131 | 131 | (X) | (X) | 23,575 | 16,780 | 1,213 | 91 | 131 | 109 | 2,337 |
| 45 | 1958..... | 157 | 157 | (X) | (X) | 21,599 | 15,114 | 1,335 | 135 | 183 | 118 | 2,547 |
| 46 | 1954..... | 152 | 152 | (X) | (X) | 1617,596 | 12,517 | 1,331 | 115 | 164 | 118 | 2,458 |
| 47 | 1939..... | 32 | 32 | (X) | (X) | 612 | 477 | 199 | 29 | 35 | 20 | 365 |
| Oil and gas extraction: | | | | | | | | | | | | |
| 48 | 1963..... | 16,339 | 21,242 | 14,898 | 652 | 12,423,399 | 11,019,796 | 191,976 | 79,500 | 17,669 | 9,554 | 397,348 |
| 49 | 1958..... | 15,384 | 18,522 | 12,737 | 593 | 10,657,047 | 9,032,493 | 214,001 | 98,915 | 20,385 | 6,918 | 440,256 |
| 50 | 1954..... | 15,105 | 17,591 | 11,514 | 582 | 109,229,945 | 107,673,694 | 235,518 | 80,290 | 19,824 | 6,999 | 491,718 |
| 51 | 1939 ¹⁰ | 9,348 | 10,909 | 8,605 | 736 | 1,659,831 | 1,242,473 | 148,996 | 37,154 | 7,730 | 1,855 | 265,028 |
| Crude petroleum and natural gas: | | | | | | | | | | | | |
| 52 | 1963..... | 10,594 | 14,378 | 14,378 | (X) | 9,878,611 | 9,016,372 | 83,444 | 61,800 | 13,844 | 6,617 | 166,305 |
| 53 | 1958..... | 9,852 | 12,010 | 12,010 | (X) | 108,384,586 | 107,339,922 | 102,485 | 77,636 | 14,281 | 3,984 | 201,009 |
| 54 | 1954 ¹⁰ | 9,720 | 11,508 | 11,508 | (X) | 7,070,062 | 6,129,213 | 109,792 | 62,714 | 13,316 | 3,886 | 216,581 |
| 55 | 1939 ¹⁰ | 8,061 | 8,605 | 8,605 | (X) | 1,375,954 | 1,071,989 | 105,505 | 30,546 | 6,294 | 1,346 | 190,674 |

See footnotes at end of table.

and Industry: 1963 and Earlier Years—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed ² (\$1,000) | Capital expenditures (\$1,000) | | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|--|------------------------------|--|------------------------------|---------------------------|----------------------------|---|--|---|--|---------------------------------------|-----------------------|---|--|--|
| Wages and salaries | | Supplies and purchases for resale ² | Purchased fuels ² | Purchased electric energy | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | | |
| 1,562 | 277 | 791 | 135 | 110 | 242 | 128 | 136 | 37 | 81 | 63 | 54 | 19 | 1 | |
| 2,627 | 485 | ¹² 1,462 | 387 | 102 | 55 | 370 | 290 | 131 | 352 | 89 | 129 | (NA) | 2 | |
| 1,607 | 365 | ¹² 1,160 | 204 | 61 | 28 | 226 | 167 | 176 | 116 | 56 | 78 | 12 | 3 | |
| 752 | 164 | 229 | 139 | 33 | 4 | (NA) | (NA) | 68 | 139 | 54 | 92 | 10 | 4 | |
| 1,383 | 220 | 464 | 230 | 69 | 15 | 618 | 460 | (NA) | (NA) | (NA) | 140 | 6 | 5 | |
| 5,131 | 1,270 | 3,761 | 479 | 1,362 | 1,485 | 2,096 | - | 70 | 2,098 | 3 | 377 | 61 | 6 | |
| 2,882 | 1,614 | ¹² 3,252 | 614 | 1,077 | 121 | 1,831 | 39 | 329 | 2,115 | - | 426 | (NA) | 7 | |
| 2,397 | 1,302 | ¹² 2,801 | 449 | 743 | 335 | 1,286 | - | 2,904 | 1,092 | 2 | 361 | 46 | 8 | |
| 140 | 42 | 38 | 15 | 35 | - | (NA) | (NA) | 15 | 72 | - | 18 | 2 | 9 | |
| 34,170 | 11,049 | 41,747 | 3,253 | 4,145 | 12,334 | 8,555 | 4,401 | 4,147 | 4,687 | 2,694 | 2,386 | 434 | 10 | |
| 34,439 | 9,983 | 57,027 | 4,525 | 2,505 | 69,613 | 20,092 | 16,499 | 64,578 | 19,660 | 828 | 2,344 | (NA) | 11 | |
| 11,908 | 2,660 | 9,844 | 2,263 | 505 | 7,462 | 5,336 | 5,494 | 4,289 | 3,842 | 1,168 | 1,266 | 165 | 12 | |
| 497 | 112 | 244 | 140 | - | 45 | (NA) | (NA) | 77 | 169 | 17 | 224 | 7 | 13 | |
| 677 | 329 | 1,009 | 114 | 40 | 4 | 226 | 310 | 44 | 209 | 21 | 45 | 23 | 14 | |
| 852 | 211 | ¹² 1,196 | 143 | 48 | 56 | 427 | 99 | 227 | 198 | 175 | 45 | (NA) | 15 | |
| 338 | 109 | ¹² 655 | 41 | 32 | 132 | 748 | 121 | 212 | 105 | 639 | 12 | 19 | 16 | |
| 49,889 | 8,946 | 27,156 | 2,947 | 5,771 | 22,230 | 9,059 | 939 | 4,177 | 8,065 | 1,930 | 2,692 | 704 | 17 | |
| 79,425 | 13,971 | 29,930 | 4,062 | 7,325 | 40,505 | 10,033 | 3,818 | 1,879 | 9,683 | 1,211 | 3,881 | (NA) | 18 | |
| 113,932 | 21,997 | 29,027 | 3,932 | 8,787 | 51,226 | 9,270 | 1,438 | 2,241 | 4,767 | 2,048 | 7,198 | 1,506 | 19 | |
| 107,798 | 12,252 | 25,489 | 3,920 | 6,524 | 11,170 | (NA) | (NA) | 1,771 | 2,882 | 322 | 19,716 | 1,091 | 20 | |
| 229,967 | 21,282 | 43,367 | 7,420 | 6,509 | 6,802 | 5,580 | 7,902 | (NA) | (NA) | (NA) | 42,694 | 1,041 | 21 | |
| 44,867 | 8,155 | 23,474 | 2,117 | 5,441 | 21,336 | 6,810 | 939 | 4,159 | 6,270 | 1,283 | 2,442 | 581 | 22 | |
| 67,449 | 12,024 | 20,777 | 2,346 | 6,814 | 39,319 | 6,317 | 3,818 | 1,811 | 6,333 | 842 | 3,347 | (NA) | 23 | |
| 98,678 | 19,392 | 20,224 | 2,038 | 8,397 | 50,156 | 5,667 | 1,438 | 2,148 | 3,367 | 931 | 6,589 | 1,072 | 24 | |
| 104,378 | 11,482 | 22,496 | 3,275 | 6,430 | 11,029 | (NA) | (NA) | 1,771 | 1,974 | 221 | 19,455 | 1,018 | 25 | |
| 229,967 | 21,282 | 43,367 | 7,420 | 6,509 | 6,802 | 5,580 | 7,902 | (NA) | (NA) | (NA) | 42,694 | 1,041 | 26 | |
| 5,022 | 791 | 3,682 | 830 | 330 | 894 | 2,249 | (X) | 18 | 1,795 | 647 | ¹⁵ 250 | 123 | 27 | |
| 11,976 | 1,947 | 9,153 | 1,716 | 511 | 1,186 | 3,716 | (X) | 68 | 3,350 | 369 | ¹⁵ 534 | (NA) | 28 | |
| 15,254 | 2,605 | 8,803 | 1,894 | 390 | 1,070 | 3,603 | (X) | 93 | 1,400 | 1,117 | ¹⁵ 609 | 434 | 29 | |
| 3,420 | 770 | 2,993 | 645 | 94 | 141 | (NA) | (X) | - 908 | | 101 | ¹⁵ 261 | 73 | 30 | |
| 650,955 | 111,308 | 380,461 | 21,330 | 56,724 | 66,133 | 197,860 | 7,312 | 38,444 | 152,236 | 20,348 | 16,071 | 6,301 | 31 | |
| 762,100 | 152,966 | 374,020 | 23,750 | 56,715 | 71,251 | 152,194 | 9,228 | 66,673 | 101,303 | 11,286 | 14,972 | (NA) | 32 | |
| 767,347 | 110,068 | 323,548 | 17,324 | 47,859 | 55,570 | 122,318 | 3,876 | 34,706 | 66,569 | 14,936 | 15,411 | 6,347 | 33 | |
| 432,188 | 44,488 | 88,516 | 5,432 | 24,895 | 1,910 | (NA) | (NA) | 5,321 | 22,471 | 2,967 | 22,587 | 3,373 | 34 | |
| 574,919 | 58,647 | 106,560 | 7,529 | 30,739 | 1,890 | 34,947 | 16,928 | (NA) | (NA) | (NA) | 37,766 | 3,125 | 35 | |
| 642,338 | 110,153 | ¹² 659,378 | 19,804 | 56,354 | 64,742 | 190,805 | 7,302 | 38,055 | 145,668 | 19,810 | 15,598 | 6,070 | 36 | |
| 753,320 | 151,721 | 369,173 | 21,842 | 56,348 | 70,346 | 147,732 | 9,154 | 66,472 | 97,867 | 10,769 | 14,372 | (NA) | 37 | |
| 759,659 | 109,100 | 319,930 | 15,925 | 47,569 | 54,613 | 119,159 | 3,861 | 34,486 | 64,208 | 14,482 | 14,914 | 6,108 | 38 | |
| 430,564 | 44,183 | 88,093 | 5,299 | 24,749 | 1,899 | (NA) | (NA) | 5,305 | 22,357 | 2,947 | 22,339 | 3,344 | 39 | |
| 2,245 | 515 | ¹² 1,788 | 200 | 304 | 287 | 4,336 | 10 | 247 | 4,316 | 60 | 140 | 76 | 40 | |
| 2,261 | 432 | 1,133 | 210 | 260 | 33 | 1,522 | 74 | 69 | 1,236 | 53 | 111 | (NA) | 41 | |
| 2,177 | 411 | 627 | 239 | 254 | 206 | 607 | 15 | 134 | 479 | 11 | 144 | 75 | 42 | |
| 1,384 | 219 | 342 | 80 | 145 | 11 | (NA) | (NA) | 16 | 73 | 20 | 248 | 21 | 43 | |
| 6,372 | 640 | 4,858 | 1,326 | 66 | 1,104 | 2,719 | (X) | 142 | 2,252 | 478 | ¹⁵ 333 | 155 | 44 | |
| 6,519 | 813 | 3,714 | 1,698 | 107 | 872 | 2,940 | (X) | 132 | 2,200 | 464 | ¹⁵ 489 | (NA) | 45 | |
| 5,511 | 557 | 2,991 | 1,160 | 36 | 751 | 2,552 | (X) | 86 | 1,882 | 443 | ¹⁵ 353 | 164 | 46 | |
| 240 | 86 | 81 | 53 | 1 | (NA) | (NA) | (X) | 41 | | | (NA) | 8 | 47 | |
| 1,093,048 | 651,663 | 1,575,624 | 135,516 | 89,754 | 1,641,513 | 648,073 | 1,342,262 | 328,037 | 743,441 | 137,952 | 329,344 | 28,309 | 48 | |
| 1,011,238 | 689,445 | 1,402,367 | 130,825 | 53,349 | 1,565,195 | 655,141 | 1,078,722 | 259,894 | 796,160 | 59,100 | 310,360 | (NA) | 49 | |
| 976,785 | 486,067 | 1,168,349 | 96,810 | 35,017 | 1,559,034 | 865,067 | 1,229,958 | 158,822 | 767,750 | 69,786 | 285,113 | 21,104 | 50 | |
| 220,435 | 97,947 | ¹⁸ 87,191 | ¹⁸ 26,247 | ¹⁸ 7,101 | ¹⁸ 203,018 | (NA) | (NA) | ¹⁸ 11,218 | ¹⁸ 188,469 | ¹⁸ 12,510 | ¹⁸ 147,767 | 5,101 | 51 | |
| 494,910 | 521,521 | 1,044,877 | 56,833 | 77,826 | 1,486,535 | 421,250 | 1,329,563 | 235,420 | 546,228 | 98,719 | 146,168 | 14,235 | 52 | |
| 497,867 | 545,241 | 951,911 | 56,204 | 45,770 | 1,455,267 | 486,886 | 1,062,206 | 197,674 | 646,389 | 37,224 | 137,480 | (NA) | 53 | |
| 459,955 | 375,785 | 692,682 | 36,177 | 30,624 | 1,458,807 | 621,048 | 1,206,214 | 98,229 | 558,950 | 35,061 | 141,655 | 9,123 | 54 | |
| 155,700 | 79,199 | 78,538 | 19,647 | 6,746 | 199,034 | (NA) | (NA) | 9,757 | 177,849 | 11,561 | 92,788 | 3,397 | 55 | |

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments)

| | Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|----|---|-------------------------------------|-------------------------|--|------------------------------|---|--|--|------------------------------|---|-------------------------|---|
| | | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | | Total | Performing manual labor | |
| | Oil and gas extraction--Continued | | | | | | | | | | | |
| | Natural gas liquids: | | | | | | | | | | | |
| 1 | 1963..... | 164 | 652 | (X) | 652 | 808,479 | 762,070 | 11,939 | 1,920 | 81 | 15 | 24,455 |
| 2 | 1958..... | 176 | 593 | (X) | 593 | 706,915 | 587,580 | 13,445 | 3,069 | 52 | 8 | 26,947 |
| 3 | 1954..... | 181 | 562 | (X) | 582 | 582,866 | 425,937 | 13,560 | 3,780 | 72 | 13 | 27,862 |
| 4 | 1939..... | 295 | 685 | (X) | 736 | 96,338 | (NA) | 8,332 | 2,005 | 10 | 2 | 16,634 |
| | Drilling oil and gas wells services: | | | | | | | | | | | |
| 5 | 1963..... | 2,671 | 2,836 | 380 | (X) | 974,546 | 653,337 | 50,333 | 5,083 | 1,535 | 1,119 | 106,266 |
| 6 | 1958 ¹⁰ | 2,911 | 3,064 | 592 | (X) | 902,721 | 587,440 | 52,274 | 7,137 | 3,206 | 1,346 | 109,470 |
| 7 | 1954 ¹⁰ | 2,846 | 2,869 | (NA) | (X) | 968,129 | 623,967 | 62,145 | 5,831 | 3,399 | 1,684 | 133,216 |
| 8 | 1939 ¹⁰ | 985 | 985 | (NA) | (X) | 128,107 | (NA) | 22,548 | 1,676 | 862 | 292 | 38,621 |
| | Oil and gas exploration services: | | | | | | | | | | | |
| 9 | 1963..... | 359 | 373 | 5 | (X) | 111,704 | 89,988 | 7,232 | 1,451 | 203 | 169 | 16,246 |
| 10 | 1958 ¹⁰ | 329 | 347 | 3 | (X) | 86,108 | 64,353 | 7,559 | 1,998 | 279 | 127 | 16,695 |
| 11 | 1954..... | 309 | 330 | (NA) | (X) | ¹⁶ 114,815 | 81,301 | 10,010 | 1,478 | 191 | 148 | 23,978 |
| | Oil and gas field services, n.e.c.: | | | | | | | | | | | |
| 12 | 1963..... | 2,901 | 3,003 | 135 | (X) | 650,059 | 498,029 | 39,028 | 9,246 | 2,006 | 1,634 | 84,076 |
| 13 | 1958 ¹⁰ | 2,456 | 2,504 | 128 | (X) | 575,702 | 455,994 | 38,212 | 9,066 | 2,567 | 1,453 | 86,060 |
| 14 | 1954..... | 2,313 | 2,316 | (NA) | (X) | ¹⁶ 543,460 | 413,276 | 39,976 | 6,449 | 2,846 | 1,268 | 90,081 |
| | Nonmetallic minerals mining: | | | | | | | | | | | |
| | 1963: | | | | | | | | | | | |
| 15 | Including operations in manufactures..... | 8,497 | 10,302 | 10,087 | 6,781 | 2,678,609 | 2,066,014 | 118,623 | ³ 24,044 | ⁴ 4,331 | ⁴ 3,548 | 253,624 |
| 16 | Mineral industries only | 7,079 | 8,421 | 8,206 | 6,549 | 2,272,580 | 1,744,774 | 98,355 | 22,883 | 4,331 | 3,548 | 212,786 |
| | 1958: | | | | | | | | | | | |
| 17 | Including operations in manufactures..... | 7,260 | 8,897 | 8,767 | 5,409 | 2,176,665 | 1,691,725 | 116,594 | ³ 22,977 | ⁴ 5,418 | ⁴ 2,851 | 243,885 |
| 18 | Mineral industries only | 6,153 | 7,323 | 7,193 | 5,187 | 1,820,759 | 1,391,515 | 96,827 | 21,803 | 5,418 | 2,851 | 204,908 |
| | 1954: | | | | | | | | | | | |
| 19 | Including operations in manufactures..... | 7,578 | 9,298 | 9,292 | 6,420 | 1,756,918 | 1,373,485 | 116,612 | ³ 17,089 | ³ 6,739 | ³ 3,693 | 254,369 |
| 20 | Mineral industries only | 6,630 | 8,081 | 8,073 | 6,216 | 1,517,716 | 1,179,849 | 97,112 | 16,329 | 6,571 | 3,573 | 214,806 |
| 21 | 1939 ¹⁰ | 4,127 | (NA) | 5,097 | 3,459 | 323,043 | 255,702 | 81,287 | 9,113 | 2,164 | 819 | 161,824 |
| 22 | 1929 ¹⁹ | (NA) | 4,004 | 4,557 | (NA) | 407,461 | 318,737 | 94,808 | 11,462 | 1,563 | (NA) | (NA) |
| | Dimension stone: | | | | | | | | | | | |
| | 1963: | | | | | | | | | | | |
| 23 | Including operations in manufactures..... | 503 | 551 | 551 | 244 | 102,154 | 70,908 | 9,640 | 1,347 | ⁴ 182 | ⁴ 166 | 19,462 |
| 24 | Mineral industry only..... | 289 | 319 | 319 | 12 | 19,199 | 14,842 | 1,970 | 186 | 182 | 166 | 3,820 |
| | 1958: | | | | | | | | | | | |
| 25 | Including operations in manufactures..... | 504 | 557 | 557 | 231 | 83,446 | 67,131 | 10,825 | 1,425 | ⁴ 269 | ⁴ 175 | 20,679 |
| 26 | Mineral industry only..... | 306 | 335 | 335 | 9 | 15,719 | 13,076 | 2,055 | 251 | 269 | 175 | 3,690 |
| | 1954: | | | | | | | | | | | |
| 27 | Including operations in manufactures..... | 523 | 555 | 558 | 204 | 76,282 | 61,774 | 11,389 | 936 | 467 | 253 | 23,155 |
| 28 | Mineral industry only..... | 322 | 351 | 352 | - | 18,418 | 15,155 | 3,068 | 156 | 299 | 133 | 5,893 |
| | Mineral industry only: | | | | | | | | | | | |
| | Dimension limestone: | | | | | | | | | | | |
| 29 | 1963..... | 59 | 61 | 61 | 3 | 3,268 | 2,947 | 286 | 40 | 40 | 37 | 568 |
| 30 | 1958..... | 65 | 68 | 68 | 4 | 4,174 | 3,741 | 491 | 92 | 57 | 38 | 879 |
| 31 | 1954..... | 63 | 65 | 65 | - | 3,398 | 2,942 | 472 | 28 | 72 | 41 | 872 |
| 32 | 1939..... | 33 | (NA) | 40 | - | 1,541 | 1,368 | 617 | 55 | 13 | (NA) | (NA) |
| | Dimension granite: | | | | | | | | | | | |
| 33 | 1963..... | 49 | 66 | 66 | 1 | 9,195 | 6,513 | 773 | 51 | 20 | 18 | 1,645 |
| 34 | 1958..... | 63 | 76 | 76 | 1 | 5,517 | 4,085 | 681 | 59 | 45 | 24 | 1,277 |
| 35 | 1954..... | 79 | 86 | 86 | - | 5,738 | 4,590 | 917 | 50 | 55 | 25 | 1,769 |
| 36 | 1939..... | 77 | (NA) | 93 | - | 3,268 | 2,674 | 1,163 | 75 | 59 | (NA) | (NA) |
| | Dimension stone, n.e.c.: | | | | | | | | | | | |
| 37 | 1963..... | 181 | 192 | 192 | 8 | 6,736 | 5,382 | 911 | 95 | 122 | 111 | 1,607 |
| 38 | 1958..... | 178 | 191 | 191 | 4 | 6,028 | 5,250 | 883 | 100 | 167 | 113 | 1,534 |
| 39 | 1954..... | 180 | 200 | 200 | - | 9,282 | 7,623 | 1,679 | 78 | 172 | 67 | 3,252 |
| 40 | 1939..... | 44 | (NA) | 51 | - | 1,547 | 1,241 | 945 | 35 | 31 | 3 | (NA) |
| | Crushed and broken stone: | | | | | | | | | | | |
| | 1963: | | | | | | | | | | | |
| 41 | Including operations in manufactures..... | 1,886 | 2,586 | 2,540 | 2,097 | 930,650 | 705,553 | 42,070 | ⁴ 7,050 | ⁴ 1,029 | ⁴ 693 | 92,602 |
| 42 | Mineral industry only..... | 1,780 | 2,256 | 2,210 | 2,097 | 775,719 | 581,655 | 36,186 | 7,050 | 1,029 | 693 | 80,834 |

See footnotes at end of table.

and Industry: 1963 and Earlier Years—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed ³ (\$1,000) | Capital expenditures (\$1,000) | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|--|---|---|---|---|---|---|--|---|---|--|--|---|----------------------|
| Wages and salaries | | Supplies and purchases for resale ² | Purchased fuels ² | Purchased electric energy ² | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | |
| 80,745 75,739 63,983 13,212 | 15,808 20,580 21,074 5,052 | 90,453 46,026 43,891 8,653 | 7,494 4,521 1,964 6,600 | 7,673 4,696 3,190 355 | 54,025 44,983 36,726 3,984 | 39,068 39,836 65,752 (NA) | (X) (X) (X) (X) | 70,788 53,566 55,794 1,461 | 40,208 40,441 51,227 10,620 | 2,860 923 2,938 949 | 158,705 142,130 113,449 54,979 | 3,887 (NA) 2,902 772 | 1 2 3 4 |
| 281,064 239,328 264,797 36,020 | 37,086 49,915 39,515 5,917 | 232,349 241,491 298,789 (NA) | 41,711 40,942 36,704 (NA) | 2,211 1,261 320 (NA) | 82,053 51,366 46,048 (NA) | 115,681 84,457 120,385 (NA) | 12,351 12,953 23,416 (NA) | 13,542 3,322 1,939 (NA) | 92,633 68,149 99,722 (NA) | 29,500 17,594 28,391 (NA) | ¹⁵ 18,103 ¹⁵ 22,617 ¹⁵ 23,302 (NA) | 5,253 (NA) 4,265 678 | 5 6 7 8 |
| 36,915 31,115 40,813 | 10,913 12,534 8,654 | 23,036 16,396 23,480 | 3,102 3,535 3,586 | 156 295 106 | 5,204 3,643 6,547 | 10,064 6,075 6,537 | — — — | 826 554 32 | 10,545 6,207 6,360 | 355 321 350 | ¹⁵ 547 ¹⁵ 949 ¹⁵ 942 | 877 (NA) 935 | 9 10 11 |
| 199,414 166,926 147,047 | 66,335 61,097 40,820 | 184,909 145,576 109,507 | 26,376 25,450 18,379 | 1,888 1,311 777 | 13,696 9,767 9,731 | 62,010 37,843 49,483 | 348 154 328 | 7,461 4,623 2,828 | 53,827 34,815 51,491 | 6,518 2,620 3,046 | ¹⁵ 5,821 ¹⁵ 7,177 ¹⁵ 5,748 | 4,057 (NA) 2,876 | 12 13 14 |
| 595,630 501,952 | ³ 166,341 159,501 | ⁵ 470,615 388,273 | ⁵ 96,155 95,193 | ⁵ 62,835 61,234 | ⁵ 78,088 77,645 | ³ 175,551 172,167 | ⁴ 16,081 16,081 | ³ 51,770 51,300 | ³ 157,139 154,305 | ³ 26,481 25,842 | ³ 56,792 56,417 | ⁴ 11,343 11,343 | 15 16 |
| 494,494 414,990 | ³ 145,582 138,493 | ⁵ 7378,812 322,210 | ⁵ 779,498 78,709 | ⁵ 748,248 46,699 | ⁵ 52,896 52,036 | ³ 132,517 130,203 | ⁴ 7,849 7,849 | ³ 840,702 40,495 | ³ 123,754 121,669 | ³ 820,039 19,827 | ³ 49,097 48,618 | (NA) (NA) | 17 18 |
| 430,759 363,678 83,014 116,691 | ³ 90,411 86,235 21,641 31,608 | ⁵ 270,190 227,389 38,065 54,319 | ⁵ 61,675 60,872 14,966 17,098 | ⁵ 36,563 35,099 12,040 15,547 | ⁵ 46,150 45,516 2,270 1,760 | ³ 131,927 130,154 (NA) 20,814 | ⁴ 9,401 9,292 (NA) 5,135 | ³ 33,654 33,347 3,716 (NA) | ³ 86,716 85,503 12,634 (NA) | ³ 17,096 16,816 2,820 (NA) | ³ 44,371 43,769 20,200 28,603 | ³ 7,827 7,684 2,311 1,651 | 19 20 21 22 |
| 39,061 6,986 | 7,698 858 | 27,961 3,519 | 1,606 644 | 2,039 438 | 1,073 630 | 4,146 762 | ⁴ 33 33 | 765 295 | 3,365 531 | 894 255 | 651 276 | (NA) 79 | 23 24 |
| 36,768 6,067 | 8,143 1,054 | 16,860 2,252 | 1,193 404 | 1,971 422 | 1,240 380 | 2,845 531 | 52 52 | 566 359 | 2,787 702 | 300 88 | 614 135 | (NA) (NA) | 25 26 |
| 35,364 7,938 | 4,863 687 | 11,544 2,482 | 1,204 401 | 1,853 389 | 1,208 574 | 2,664 891 | 178 69 | 393 86 | 1,794 581 | 491 211 | 744 142 | 262 94 | 27 28 |
| 1,108 1,592 1,429 632 | 158 528 127 89 | 390 385 586 80 | 77 87 87 36 | 68 78 54 53 | 161 91 52 4 | 138 294 158 (NA) | 4 15 — (NA) | 15 70 — 5 | 142 388 89 18 | 121 29 36 10 | 23 33 34 39 | 18 (NA) 18 17 | 29 30 31 32 |
| 3,271 2,046 2,404 1,297 | 330 242 235 182 | 2,297 1,293 693 313 | 328 115 96 67 | 221 171 229 200 | 181 41 149 14 | 273 89 226 (NA) | 23 32 30 (NA) | 123 51 5 14 | 186 122 157 50 | 53 12 53 21 | 185 38 35 77 | 28 (NA) 30 29 | 33 34 35 36 |
| 2,607 2,429 4,105 730 | 370 284 325 77 | 832 574 1,203 146 | 239 202 218 89 | 149 173 106 57 | 288 248 373 14 | 351 148 507 (NA) | 6 5 39 (NA) | 157 238 81 — | 203 192 335 10 | 81 47 122 11 | 68 64 73 159 | 33 (NA) 46 13 | 37 38 39 40 |
| 209,257 177,843 | ⁴ 51,272 51,272 | ⁵ 188,378 157,345 | ⁵ 26,083 26,083 | ⁵ 19,807 19,807 | ⁵ 23,599 23,599 | (NA) 60,007 | (NA) 1,402 | (NA) 18,741 | (NA) 50,813 | (NA) 11,731 | (NA) 9,951 | (NA) 4,269 | 41 42 |

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments)

| Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|--|-------------------------------------|-------------------------|--|------------------------------|---|--|--|------------------------------|---|-------------------------|---|
| | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | Total | Performing manual labor | |
| Nonmetallic minerals mining--Continued | | | | | | | | | | | |
| Crushed and broken stone--Continued | | | | | | | | | | | |
| 1958: | | | | | | | | | | | |
| 1 Including operations in manufactures..... | 1,692 | 2,188 | 2,164 | 1,823 | 745,643 | 566,066 | 40,129 | 46,582 | 4101,323 | 410611 | 86,174 |
| 2 Mineral industry only..... | 1,609 | 1,969 | 1,945 | 1,823 | 606,910 | 449,419 | 35,148 | 6,582 | 101,323 | 10611 | 76,212 |
| 1954: | | | | | | | | | | | |
| 3 Including operations in manufactures..... | 1,638 | 2,174 | 2,174 | 1,798 | 579,853 | 436,565 | 39,619 | 34,293 | 31,272 | 3603 | 88,576 |
| 4 Mineral industry only..... | 1,530 | 1,919 | 1,919 | 1,798 | 461,006 | 339,530 | 33,332 | 4,293 | 1,272 | 603 | 75,999 |
| Mineral industry only: Crushed and broken limestone: | | | | | | | | | | | |
| 5 1963..... | 1,277 | 1,612 | 1,587 | 1,529 | 528,000 | 408,450 | 26,331 | 4,764 | 758 | 499 | 59,365 |
| 6 1958..... | 1,181 | 1,463 | 1,446 | 1,392 | 447,466 | 334,803 | 26,453 | 5,054 | 101,088 | 10499 | 57,262 |
| 7 1954 ¹⁰ | 1,174 | 1,447 | 1,443 | 1,362 | 323,703 | 239,604 | 24,925 | 3,315 | 1,017 | 490 | 56,335 |
| 8 1939 ¹⁰ | 716 | (NA) | 918 | (NA) | 55,172 | 41,432 | 17,655 | 1,726 | 507 | (NA) | (NA) |
| 9 1929 ¹⁰ | (NA) | 742 | 785 | (NA) | 66,908 | (NA) | 16,443 | (NA) | (NA) | (NA) | (NA) |
| Crushed and broken granite: | | | | | | | | | | | |
| 10 1963..... | 95 | 150 | 150 | 140 | 89,562 | 61,702 | 3,449 | 611 | 43 | 41 | 7,894 |
| 11 1958..... | 87 | 121 | 121 | 108 | 49,391 | 33,493 | 2,906 | 403 | 32 | 14 | 6,442 |
| 12 1954..... | 75 | 101 | 99 | 88 | 1630,875 | 22,201 | 2,344 | 206 | 55 | 24 | 5,607 |
| 13 1939..... | 59 | (NA) | 79 | 74 | 7,030 | 5,042 | 2,100 | 232 | 22 | 10 | 4,574 |
| 14 1929..... | (NA) | 86 | 89 | (NA) | 6,751 | 4,871 | 2,066 | (NA) | (NA) | (NA) | (NA) |
| Crushed and broken stone, n.e.c.: | | | | | | | | | | | |
| 15 1963..... | 408 | 494 | 473 | 428 | 158,157 | 111,503 | 6,406 | 1,675 | 228 | 153 | 13,575 |
| 16 1958..... | 341 | 385 | 378 | 323 | 110,053 | 81,123 | 5,789 | 1,125 | 10203 | 1098 | 12,508 |
| 17 1954 ¹⁰ | 273 | 363 | 369 | 315 | 16106,606 | 76,613 | 5,909 | 772 | 198 | 89 | 13,738 |
| 18 1939 ¹⁰ | 229 | (NA) | 262 | 233 | 17,412 | 12,891 | 4,355 | 507 | 79 | 34 | 8,891 |
| Sand and gravel: | | | | | | | | | | | |
| 1963: | | | | | | | | | | | |
| 19 Including operations in manufactures..... | 4,729 | 5,241 | 5,209 | 3,840 | 746,220 | 582,696 | 35,919 | 47,100 | 42,525 | 42,220 | 76,390 |
| 20 Mineral industry only..... | 4,141 | 4,616 | 4,584 | 3,840 | 666,566 | 513,728 | 33,042 | 7,100 | 2,525 | 2,220 | 70,620 |
| 1958: | | | | | | | | | | | |
| 21 Including operations in manufactures..... | 3,732 | 4,095 | 4,082 | 102,758 | 624,641 | 499,229 | 33,282 | 46,430 | 4102,957 | 4101,592 | 71,776 |
| 22 Mineral industry only..... | 3,355 | 3,708 | 3,695 | 102,758 | 553,538 | 435,439 | 30,729 | 6,430 | 102,957 | 101,592 | 66,674 |
| 23 1954 (mineral industry only)..... | 3,348 | 3,939 | 3,957 | 103,309 | 456,647 | 357,583 | 30,560 | 5,935 | 103,523 | 101,913 | 70,178 |
| 24 1939 ¹⁰ | 1,253 | 1,569 | 1,563 | 1,528 | 79,403 | 61,935 | 16,959 | 2,818 | 796 | 290 | 35,785 |
| 25 1929 ¹⁰ | (NA) | 1,072 | 1,325 | (NA) | 112,447 | 89,235 | 18,061 | 3,967 | 268 | (NA) | (NA) |
| Mineral industry only: Construction sand and gravel and industrial sand, n.e.c.: | | | | | | | | | | | |
| 26 1963..... | 4,055 | 4,484 | 4,455 | 3,716 | 621,498 | 478,241 | 31,055 | 6,590 | 2,464 | 2,180 | 66,336 |
| 27 1958..... | 3,218 | 3,539 | 3,529 | 102,618 | 509,588 | 402,671 | 28,367 | 5,908 | 102,869 | 101,536 | 61,927 |
| 28 1954..... | 3,204 | 3,764 | 3,774 | 103,156 | 16436,845 | 334,900 | 28,450 | 5,669 | 103,408 | 101,852 | 65,675 |
| 29 1939 ¹⁰ | 1,129 | 1,383 | 1,380 | 1,383 | 69,130 | 53,870 | 14,584 | 2,445 | 711 | 253 | 31,324 |
| 30 1929 ¹⁰ | (NA) | 957 | 1,165 | (NA) | 102,312 | 81,159 | 15,994 | 3,672 | 249 | (NA) | (NA) |
| Glass sand: | | | | | | | | | | | |
| 31 1963..... | 32 | 39 | 38 | 39 | 28,753 | 22,649 | 1,223 | 347 | 6 | 3 | 2,738 |
| 32 1958..... | 39 | 45 | 42 | 39 | 1628,343 | 20,672 | 1,339 | 289 | 14 | 8 | 2,833 |
| 33 1954..... | 40 | 44 | 44 | 38 | 1618,591 | 13,701 | 1,144 | 151 | 26 | 11 | 2,505 |
| 34 1939..... | 32 | 40 | 39 | 40 | 6,137 | 4,625 | 1,280 | 242 | 5 | 1 | 2,667 |
| 35 1929..... | (NA) | 25 | 32 | (NA) | 5,359 | 4,082 | 1,030 | 95 | - | (NA) | (NA) |
| Molding sand: | | | | | | | | | | | |
| 36 1963..... | 68 | 93 | 91 | 85 | 16,315 | 12,838 | 764 | 163 | 55 | 49 | 1,546 |
| 37 1958..... | 98 | 124 | 124 | 101 | 1616,373 | 12,096 | 1,023 | 233 | 74 | 48 | 1,914 |
| 38 1954..... | 105 | 131 | 139 | 115 | 1611,762 | 8,982 | 966 | 115 | 89 | 50 | 1,998 |
| 39 1939..... | 97 | 146 | 144 | 105 | 4,136 | 3,440 | 1,095 | 131 | 80 | 36 | 1,794 |
| 40 1929..... | (NA) | 90 | 128 | (NA) | 4,776 | 3,994 | 1,037 | 200 | 19 | (NA) | (NA) |
| Bentonite: | | | | | | | | | | | |
| 41 1963..... | 31 | 44 | 44 | 32 | 1618,105 | 11,435 | 644 | 167 | 13 | 8 | 1,508 |
| 42 1958..... | 29 | 41 | 41 | 25 | 1616,843 | 12,220 | 543 | 145 | 21 | 6 | 1,140 |
| 43 1954..... | 29 | 43 | 43 | 28 | 1621,830 | 16,350 | 578 | 56 | 23 | 7 | 1,340 |
| 44 1939..... | 27 | (NA) | 29 | 20 | 1,982 | 1,463 | 357 | 62 | 4 | 1 | 687 |

See footnotes at end of table.

and Industry: 1963 and Earlier Years—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed ⁵ (\$1,000) | Capital expenditures (\$1,000) | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|---|--|---|--|---|--|---|--|--|---|--|---|--|----------------------------|
| Wages and salaries | | Supplies and purchases for resale ² | Purchased fuels ² | Purchased electric energy | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | |
| 171,549 148,408 | ⁴ 41,393 41,393 | ⁵ 7156,105 ⁷ 134,019 | ⁵ 721,809 ⁷ 21,809 | ⁵ 714,513 ⁷ 14,513 | ⁵ 16,251 16,251 | (NA) 51,828 | (NA) 1,959 | (NA) ⁸ 16,161 | (NA) ⁸ 44,398 | (NA) ⁸ 6,828 | (NA) 8,371 | (NA) (NA) | 1 2 |
| 146,663 123,247 | ⁴ 222,820 22,820 | ⁵ 109,011 87,199 | ⁵ 16,135 16,135 | ⁵ 11,926 11,926 | ⁵ 10,744 10,744 | (NA) 44,971 | (NA) 1,390 | (NA) 11,925 | (NA) 26,487 | (NA) 5,400 | (NA) 6,916 | (NA) 2,797 | 3 4 |
| 126,791 111,551 90,715 17,064 19,437 | 33,797 32,154 17,103 3,850 (NA) | 96,967 97,344 58,726 7,720 12,693 | 18,960 17,442 11,913 2,735 2,399 | 13,930 10,881 8,634 2,780 2,592 | 16,409 12,557 7,336 507 (NA) | 40,644 39,088 32,622 (NA) (NA) | 1,034 1,752 1,219 (NA) (NA) | 11,829 ⁸ 12,411 7,638 (NA) (NA) | 37,213 ⁸ 34,995 19,153 (NA) (NA) | 9,459 ⁸ 5,370 3,963 (NA) (NA) | 6,484 6,892 4,956 (NA) (NA) | 3,219 (NA) 2,183 670 276 | 5 6 7 8 9 |
| 16,010 10,771 7,573 1,782 2,162 | 3,816 2,204 1,306 573 (NA) | 22,734 12,351 ¹² 6,506 1,405 1,273 | 1,867 674 747 223 209 | 1,883 1,309 838 334 359 | 2,175 634 729 26 (NA) | 6,486 5,838 3,041 (NA) (NA) | 146 61 13 (NA) (NA) | 1,782 948 844 75 (NA) | 4,425 3,310 1,841 210 (NA) | 832 384 489 50 (NA) | 812 384 282 16 (NA) | 362 (NA) 169 48 38 | 10 11 12 13 14 |
| 35,042 26,086 24,445 4,806 | 13,659 7,035 4,330 1,138 | 37,644 24,327 22,271 2,904 | 5,256 3,693 3,421 682 | 3,994 2,324 2,399 849 | 5,015 ⁵ 3,060 2,669 86 | 12,877 6,902 9,082 (NA) | 222 146 155 (NA) | 5,130 ⁸ 2,802 3,436 194 | 9,175 ⁸ 6,093 5,353 484 | 1,440 ⁸ 1,074 924 163 | 2,655 1,080 1,659 487 | 688 (NA) 430 (NA) | 15 16 17 18 |
| 183,147 170,333 | ³ 41,827 41,827 | ⁵ 120,305 109,619 | ⁵ 29,269 29,269 | ⁵ 17,046 17,046 | ⁵ 22,356 22,356 | (NA) 57,953 | (NA) 1,191 | (NA) 14,237 | (NA) 49,850 | (NA) 10,446 | (NA) 10,176 | (NA) 4,851 | 19 20 |
| 145,932 134,820 119,256 18,822 25,385 | ³ 37,937 37,937 28,357 6,393 11,630 | ⁵ 796,427 ⁷ 89,114 ⁷ 61,789 8,493 12,946 | ⁵ 725,342 ⁷ 25,342 ⁷ 21,373 4,632 4,452 | ⁵ 714,099 ⁷ 14,099 ⁷ 9,997 3,805 5,353 | ⁵ 715,367 ⁷ 15,367 ⁷ 14,692 538 461 | (NA) 38,499 47,892 (NA) 7,963 | (NA) 1,842 ¹⁰ 1,649 (NA) 62 | (NA) ⁸ 14,894 ⁸ 7,866 1,029 (NA) | (NA) ⁸ 29,005 ⁸ 28,599 4,238 (NA) | (NA) ⁸ 10,851 ⁸ 8,014 1,064 (NA) | (NA) 8,607 9,065 4,281 6,681 | (NA) (NA) 3,220 669 545 | 21 22 23 24 25 |
| 159,907 125,181 111,890 16,482 22,780 | 38,121 34,634 26,968 5,447 10,746 | 103,609 ⁷ 81,371 ⁷ 57,653 7,432 11,917 | 26,901 ⁷ 23,085 ⁷ 19,758 4,156 3,990 | 15,251 ⁷ 12,471 ⁷ 8,797 3,273 4,921 | 21,540 ⁷ 14,672 ⁷ 13,919 399 325 | 54,219 35,207 46,023 (NA) 7,174 | 1,176 1,808 ¹⁰ 1,573 (NA) - | 13,484 ⁸ 13,569 ⁸ 7,420 870 (NA) | 45,947 ⁸ 26,664 ⁸ 27,295 3,752 (NA) | 10,215 ⁸ 10,807 ⁸ 7,917 1,028 (NA) | 8,845 7,260 7,986 3,645 5,832 | 4,669 (NA) 3,078 643 517 | 26 27 28 29 30 |
| 6,650 5,730 4,279 1,456 1,314 | 2,490 1,767 819 600 278 | 4,223 ¹² 5,520 3,208 747 675 | 1,464 1,265 840 322 282 | 1,330 1,084 807 366 305 | 322 145 166 77 15 | 2,977 2,360 965 (NA) 433 | 6 19 34 (NA) 50 | 642 1,012 258 124 (NA) | 3,144 1,656 789 319 (NA) | 206 16 15 5 (NA) | 979 966 746 496 542 | 101 (NA) 55 29 13 | 31 32 33 34 35 |
| 3,776 3,909 3,087 884 1,291 | 1,216 1,536 570 346 606 | 1,787 ¹² 2,300 928 314 354 | 904 992 775 154 180 | 465 544 393 166 127 | 494 550 607 62 121 | 757 932 904 (NA) 356 | 9 15 42 (NA) 12 | 111 313 188 35 (NA) | 759 685 515 167 (NA) | 25 28 82 31 (NA) | 352 381 333 140 307 | 81 (NA) 87 27 15 | 36 37 38 39 40 |
| 3,141 1,996 1,920 309 | 986 889 215 137 | ¹² 4,349 ¹² 2,406 ¹² 2,916 396 | 681 720 468 59 | 514 390 305 26 | 1,348 1,181 1,829 38 | 1,134 1,009 604 (NA) | 112 125 15 (NA) | 358 4 81 15 | 727 946 392 63 | 159 8 154 40 | 614 576 369 81 | 42 (NA) 36 7 | 41 42 43 44 |

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments)

| | Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|----|--|-------------------------------------|-------------------------|--|------------------------------|---|--|--|------------------------------|---|-------------------------|---|
| | | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | | Total | Performing manual labor | |
| | | | | | | | | | | | | |
| | Nonmetallic minerals mining--Continued | | | | | | | | | | | |
| | Fire clay: | | | | | | | | | | | |
| 1 | 1963: | | | | | | | | | | | |
| | Including operations in manufactures..... | 228 | 293 | 293 | 38 | 40,333 | 30,596 | 2,057 | 4118 | 4121 | 489 | 4,041 |
| 2 | Mineral industry only..... | 134 | 155 | 155 | 38 | 16,898 | 12,640 | 861 | 118 | 121 | 89 | 1,640 |
| | 1958: | | | | | | | | | | | |
| 3 | Including operations in manufactures..... | 235 | 317 | 317 | 31 | 32,759 | 25,848 | 2,084 | 4194 | 4122 | 459 | 3,824 |
| 4 | Mineral industry only..... | 136 | 182 | 182 | 31 | 18,421 | 14,540 | 1,279 | 194 | 122 | 59 | 2,214 |
| | 1954: | | | | | | | | | | | |
| 5 | Including operations in manufactures..... | 279 | 353 | 357 | 61 | 31,659 | 24,335 | 3,011 | 3185 | 3167 | 374 | 5,542 |
| 6 | Mineral industry only..... | 180 | 248 | 252 | 61 | 22,046 | 17,468 | 1,802 | 185 | 167 | 74 | 3,123 |
| 7 | 1939..... | 200 | (NA) | 306 | 44 | 7,178 | 6,168 | 3,655 | 255 | 108 | 41 | 5,642 |
| 8 | 1929 ²⁰ | (NA) | 199 | 236 | (NA) | 10,753 | 8,469 | 4,139 | 363 | 72 | (NA) | (NA) |
| | Fuller's earth: | | | | | | | | | | | |
| 9 | 1963..... | 15 | 15 | 15 | 12 | ¹⁶ 12,954 | 9,071 | 653 | 105 | 5 | 1 | 1,363 |
| 10 | 1958..... | 13 | 14 | 14 | 11 | ¹⁶ 8,692 | 5,955 | 527 | 125 | 7 | - | 1,145 |
| 11 | 1954..... | 15 | 16 | 19 | 13 | 6,012 | 4,179 | 510 | 54 | 8 | 4 | 1,109 |
| 12 | 1939..... | 21 | (NA) | 22 | 18 | 2,107 | 1,402 | 562 | 116 | 2 | - | 1,051 |
| 13 | 1929..... | (NA) | 22 | 24 | (NA) | 4,812 | 3,589 | 991 | 105 | - | - | (NA) |
| | Kaolin and ball clay: | | | | | | | | | | | |
| 14 | 1963..... | 39 | 48 | 48 | 37 | 65,073 | 49,841 | 2,916 | 430 | 21 | 12 | 6,123 |
| 15 | 1958..... | 41 | 53 | 53 | 43 | ¹⁶ 42,434 | 30,990 | 2,722 | 672 | 18 | 6 | 5,675 |
| | 1954: | | | | | | | | | | | |
| 16 | Including operations in manufactures..... | 48 | 62 | 69 | 38 | 34,410 | 26,748 | 2,843 | 4328 | 319 | 37 | 6,205 |
| 17 | Mineral industry only..... | 40 | 54 | 61 | 38 | 31,878 | 25,249 | 2,820 | 328 | 19 | 7 | 6,159 |
| 18 | 1939..... | 75 | (NA) | 95 | 53 | 7,239 | 5,437 | 3,168 | 266 | 26 | 3 | 5,987 |
| | Feldspar: | | | | | | | | | | | |
| 19 | 1963..... | 24 | 31 | 31 | 17 | 8,429 | 6,117 | 394 | 67 | 9 | 3 | 850 |
| 20 | 1958..... | 64 | 74 | 74 | 12 | 6,433 | 4,531 | 496 | 71 | 52 | 44 | 1,028 |
| 21 | 1954..... | 58 | 84 | 110 | 22 | 6,239 | 4,048 | 579 | 37 | 84 | 70 | 1,235 |
| 22 | 1939..... | 47 | (NA) | 59 | 2 | 981 | 859 | 512 | 54 | 39 | 21 | 1,016 |
| 23 | 1929..... | (NA) | 51 | 58 | (NA) | 1,935 | 1,599 | 598 | 95 | 10 | (NA) | (NA) |
| | Clay and related minerals, n.e.c.: | | | | | | | | | | | |
| | 1963: | | | | | | | | | | | |
| 24 | Including operations in manufactures..... | 495 | 649 | 649 | 65 | ¹⁶ 75,282 | 52,946 | 3,599 | (NA) | (NA) | (NA) | 7,392 |
| 25 | Mineral industry only..... | 115 | 130 | 130 | 65 | ¹⁶ 38,944 | 24,481 | 1,679 | 282 | 39 | 37 | 3,577 |
| | 1958: | | | | | | | | | | | |
| 26 | Including operations in manufactures ¹⁰ | 529 | 703 | 703 | 61 | ¹⁶ 65,795 | 49,410 | 3,500 | (NA) | (NA) | (NA) | 7,232 |
| 27 | Mineral industry only..... | 113 | 126 | 126 | 61 | ¹⁶ 29,274 | 19,132 | 1,731 | 268 | 52 | 31 | 3,695 |
| | 1954: | | | | | | | | | | | |
| 28 | Including operations in manufactures..... | 678 | 805 | 806 | 85 | ¹⁶ 40,693 | 30,481 | 3,774 | (NA) | (NA) | (NA) | 7,612 |
| 29 | Mineral industry only..... | 173 | 187 | 188 | 85 | ¹⁶ 15,159 | 11,155 | 1,174 | 109 | 100 | 51 | 2,411 |
| 30 | 1939..... | 527 | (NA) | 621 | 76 | 7,877 | 6,413 | 3,205 | 89 | 78 | 8 | 6,083 |
| | Barite: | | | | | | | | | | | |
| 31 | 1963..... | 45 | 54 | 54 | 27 | 16,536 | 11,107 | 911 | 523 | 33 | 23 | 1,887 |
| 32 | 1958..... | 41 | 53 | 52 | 35 | ¹⁶ 13,768 | 11,321 | 781 | 446 | 33 | 19 | 1,588 |
| 33 | 1954..... | 36 | 44 | 45 | 35 | 18,269 | 14,051 | 036 | 89 | 35 | 18 | 2,403 |
| 34 | 1939..... | 37 | (NA) | 47 | 32 | 2,065 | 1,652 | 792 | 62 | 16 | 4 | 1,439 |
| 35 | 1929..... | (NA) | (NA) | 44 | (NA) | 1,802 | 1,489 | 844 | 71 | 9 | (NA) | (NA) |
| | Fluorspar: | | | | | | | | | | | |
| 36 | 1963..... | 28 | 30 | 24 | 16 | 12,340 | 8,869 | 682 | 122 | 4 | 4 | 1,346 |
| 37 | 1958..... | 50 | 55 | 51 | 27 | 16,639 | 12,653 | 1,044 | 191 | 66 | 27 | 2,105 |
| 38 | 1954..... | 94 | 104 | 105 | 33 | 13,733 | 9,914 | 997 | 263 | 114 | 82 | 2,001 |
| 39 | 1939..... | 60 | (NA) | 61 | 53 | 3,397 | 2,655 | 1,287 | 109 | 49 | 13 | 2,568 |
| 40 | 1929..... | (NA) | 28 | 36 | (NA) | 2,858 | 2,038 | 1,053 | 118 | 13 | (NA) | (NA) |
| | Potash, soda, borate minerals: | | | | | | | | | | | |
| 41 | 1963..... | 19 | 23 | 23 | 19 | ¹⁶ 192,116 | 156,151 | 4,822 | 2,228 | 5 | 3 | 9,849 |
| 42 | 1958..... | 18 | 21 | 21 | 17 | ¹⁶ 141,115 | 111,082 | 4,590 | 2,071 | 3 | - | 9,212 |
| 43 | 1954..... | 15 | 20 | 20 | 16 | ¹⁶ 107,757 | 82,213 | 4,738 | 1,584 | 1 | - | 9,381 |
| 44 | 1939..... | 15 | (NA) | 17 | 13 | 17,031 | 13,330 | 2,049 | 389 | 6 | 1 | 4,388 |
| | Phosphate rock: | | | | | | | | | | | |
| 45 | 1963..... | 43 | 66 | 56 | 43 | 130,295 | 94,889 | 3,996 | 1,628 | 16 | 13 | 9,047 |
| 46 | 1958..... | 43 | 65 | 52 | 44 | 99,109 | 64,375 | 3,955 | 1,438 | 27 | 14 | 8,255 |
| 47 | 1954..... | 53 | 75 | 73 | 54 | 82,583 | 62,089 | 4,579 | 861 | 44 | 21 | 10,119 |
| 48 | 1939..... | 33 | (NA) | 40 | 50 | 12,286 | 9,003 | 3,372 | 382 | 12 | - | 6,680 |
| 49 | 1929..... | (NA) | 26 | 33 | (NA) | 13,044 | 9,497 | 3,201 | 305 | 2 | (NA) | (NA) |

See footnotes at end of table.

and Industry: 1963 and Earlier Years—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery, installed ³ (\$1,000) | Capital expenditures (\$1,000) | | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|--|---|---|---------------------------------------|---|--|--|--|---|--|---------------------------------------|---|---|--|--|
| Wages and salaries | | Supplies and purchases for resale ² | Purchased fuels ² | Purchased electric energy ² | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | | |
| 9,427 3,795 | ⁴ 813 813 | ⁵ 8,210 2,731 | ⁵ 637 637 | ⁵ 239 239 | ⁵ 944 944 | (NA) 2,004 | (NA) 195 | (NA) 574 | (NA) 1,131 | (NA) 259 | (NA) 176 | (NA) 86 | 1 2 | |
| 8,606 4,989 | ⁴ 1,031 1,031 | ⁵ 5,148 2,118 | ⁵ 1,090 1,090 | ⁵ 264 264 | ⁵ 830 830 | (NA) 1,695 | (NA) 189 | (NA) 153 | (NA) 1,562 | (NA) 203 | (NA) 382 | (NA) (NA) | 3 4 | |
| 9,783 5,670 3,366 3,758 | ³ 928 928 499 841 | ⁵ 4,729 1,983 622 1,494 | ⁵ 639 639 115 525 | ⁵ 305 305 130 245 | ⁵ 1,686 1,686 143 20 | (NA) 1,292 (NA) 459 | (NA) 79 (NA) 94 | (NA) 184 34 (NA) | (NA) 925 112 (NA) | (NA) 139 41 (NA) | (NA) 300 127 944 | (NA) 100 32 32 | 5 6 7 8 | |
| 2,423 1,673 1,381 438 853 | 644 726 363 308 303 | 2,525 ¹² 1,754 840 374 425 | 1,035 748 538 164 385 | 321 270 218 95 62 | 370 281 223 72 351 | 805 263 539 (NA) 98 | - 25 - (NA) 90 | 293 231 84 17 (NA) | 776 321 413 61 (NA) | 104 2 28 7 (NA) | 748 323 296 185 411 | 35 (NA) 23 15 8 | 9 10 11 12 13 | |
| 14,500 9,719 | 3,218 4,295 | ¹² 11,924 ¹² 8,739 | 3,236 2,157 | 1,875 1,194 | 674 592 | 3,764 2,913 | 478 330 | 584 1,053 | 4,094 2,676 | 81 92 | 2,547 1,433 | 192 (NA) | 14 15 | |
| 8,174 8,115 1,830 | ³ 1,828 1,828 637 | ⁵ 4,609 4,576 896 | ⁵ 1,524 1,524 530 | ⁵ 857 857 241 | ⁵ 1,362 1,362 135 | (NA) 2,601 (NA) | (NA) 109 (NA) | (NA) 1,449 203 | (NA) 2,733 958 | (NA) - 59 | (NA) 1,134 750 | (NA) 97 33 | 16 17 18 | |
| 1,749 1,515 1,523 383 527 | 214 404 199 113 203 | 1,899 1,055 1,400 81 239 | 331 324 238 28 21 | 460 396 302 8 62 | 602 156 365 5 14 | 732 1,277 294 (NA) 28 | 210 22 36 (NA) 32 | 907 208 94 7 (NA) | 468 1,053 259 37 (NA) | 117 23 19 2 (NA) | 155 127 102 6 25 | 40 (NA) 30 6 7 | 19 20 21 22 23 | |
| 16,617 8,507 | (NA) 2,181 | ⁵ 14,365 6,492 | ⁵ 5,550 5,550 | ⁵ 1,610 1,610 | ⁵ 1,137 1,137 | (NA) 2,642 | (NA) 133 | (NA) 583 | (NA) 1,969 | (NA) 307 | (NA) 4,038 | (NA) 133 | 24 25 | |
| 14,042 6,988 | (NA) 1,932 | ⁵ 11,708 5,465 | ⁵ 4,566 4,566 | ⁵ 1,071 1,071 | ⁵ 824 824 | (NA) 2,187 | (NA) 62 | (NA) 1,836 | (NA) 1,940 | (NA) 133 | (NA) 2,636 | (NA) (NA) | 26 27 | |
| 11,943 3,881 3,161 | (NA) 481 149 | ⁵ 8,839 ¹² 2,631 727 | ⁵ 1,244 1,244 397 | ⁵ 428 428 230 | ⁵ 1,190 1,190 110 | (NA) 1,178 (NA) | (NA) 48 (NA) | (NA) 699 42 | (NA) 987 202 | (NA) 135 87 | (NA) 1,142 427 | (NA) 74 (NA) | 28 29 30 | |
| 3,605 2,698 3,451 597 648 | 3,194 2,479 423 155 186 | ¹² 3,758 ¹² 1,953 2,251 246 155 | 374 281 327 94 58 | 831 554 552 52 76 | 957 381 850 21 24 | 742 251 1,250 (NA) 154 | 20 204 24 (NA) 12 | 440 426 78 31 (NA) | 526 307 853 57 (NA) | 115 36 57 39 (NA) | 271 198 269 56 84 | 60 (NA) 68 10 6 | 31 32 33 34 35 | |
| 3,037 4,336 3,451 1,134 1,112 | 944 1,280 1,415 228 290 | 2,258 2,504 2,195 506 626 | 456 563 495 118 153 | 595 594 513 61 24 | 320 1,127 804 57 17 | 268 764 561 (NA) 140 | 15 627 140 (NA) 157 | 163 160 145 106 (NA) | 89 702 429 429 (NA) | 46 77 35 27 (NA) | 331 379 380 358 387 | 24 (NA) 49 21 7 | 36 37 38 39 40 | |
| 32,901 26,746 23,028 3,445 | 18,958 14,321 10,411 1,311 | ¹² 28,687 ¹² 22,643 ¹² 17,329 2,036 | 9,650 7,144 5,594 1,425 | 4,624 3,026 1,641 198 | 7,998 1,677 1,646 42 | 11,779 6,936 8,390 (NA) | 7,806 608 525 (NA) | 4,893 1,557 1,599 377 | 13,766 8,994 6,866 675 | 308 234 66 16 | 8,279 8,452 5,812 2,231 | 330 (NA) 195 61 | 41 42 43 44 | |
| 20,642 17,185 17,089 2,871 3,304 | 11,313 10,025 4,440 858 778 | 17,568 12,776 11,917 1,503 1,543 | 4,986 3,562 3,348 826 891 | 8,274 6,729 5,507 931 1,092 | 9,648 2,395 2,904 23 21 | 14,904 6,095 8,156 (NA) 805 | 1,902 426 1,083 (NA) 190 | 5,494 307 2,484 109 (NA) | 14,512 4,916 7,662 425 (NA) | 326 53 109 46 (NA) | 4,619 3,120 2,990 1,513 1,648 | 525 (NA) 357 113 104 | 45 46 47 48 49 | |

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments)

| | Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|--|---|-------------------------------------|-------------------------|--|------------------------------|---|--|--|------------------------------|---|-------------------------|---|
| | | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | | Total | Performing manual labor | |
| | | | | | | | | | | | | |
| Nonmetallic minerals mining--Continued | | | | | | | | | | | | |
| | Rock salt: | | | | | | | | | | | |
| 1 | 1963..... | 20 | 25 | 23 | 20 | 58,630 | 49,539 | 1,812 | 631 | 7 | 5 | 4,260 |
| 2 | 1958..... | 18 | 22 | 22 | 21 | ¹⁶ 41,813 | 34,073 | 1,602 | 382 | 7 | 4 | 3,508 |
| 3 | 1954..... | 11 | 15 | 15 | 13 | 35,581 | 30,013 | 1,659 | 266 | 3 | 1 | 3,861 |
| 4 | 1939..... | 17 | (NA) | 17 | 17 | 6,896 | 5,721 | 1,380 | 181 | 4 | 4 | 2,608 |
| | Sulfur: | | | | | | | | | | | |
| 5 | 1963..... | 11 | 17 | 17 | 3 | 113,103 | 100,349 | 1,600 | 1,003 | 4 | 4 | 3,264 |
| 6 | 1958..... | 14 | 24 | 24 | 5 | 106,202 | 94,063 | 2,303 | 1,374 | 2 | - | 4,644 |
| 7 | 1954..... | 12 | 20 | 16 | 5 | 140,685 | 124,166 | 3,077 | 1,018 | - | - | 6,229 |
| 8 | 1939..... | 8 | (NA) | 10 | 2 | 31,812 | 28,863 | 1,517 | 507 | 1 | 1 | 3,031 |
| 9 | 1929..... | (NA) | 9 | 10 | (NA) | 37,126 | 29,302 | 2,199 | 305 | 1 | (NA) | (NA) |
| | Chemical-fertilizer mining, n.e.c.: | | | | | | | | | | | |
| 10 | 1963..... | 19 | 20 | 20 | 10 | ¹⁶ 18,270 | 12,409 | 772 | 310 | 9 | 7 | 1,560 |
| 11 | 1958..... | 22 | 24 | 24 | 12 | ¹⁶ 15,760 | 9,745 | 1,606 | 414 | 3 | 2 | 2,719 |
| 12 | 1954..... | 25 | 27 | 24 | 17 | ¹⁶ 14,963 | 14,671 | 1,056 | 198 | 15 | 7 | 2,125 |
| 13 | 1939 ²¹ | 8 | (NA) | 7 | 4 | 602 | 458 | 189 | 15 | 5 | 1 | 348 |
| | Nonmetallic minerals services: | | | | | | | | | | | |
| 14 | 1963..... | 118 | 119 | (X) | (X) | 13,244 | 9,326 | 806 | 65 | 89 | 66 | 1,575 |
| 15 | 1958..... | 74 | 75 | (X) | (X) | 7,934 | 6,217 | 1,037 | 72 | 79 | 44 | 1,893 |
| 16 | 1954..... | 62 | 62 | (X) | (X) | 6,301 | 4,884 | 614 | 25 | 67 | 26 | 1,258 |
| 17 | 1939..... | 65 | 65 | (X) | (X) | 966 | 725 | 307 | 28 | 68 | 27 | 632 |
| | Gypsum: | | | | | | | | | | | |
| 18 | 1963: | | | | | | | | | | | |
| | Including operations in manufactures..... | 40 | 74 | 74 | 25 | 38,876 | 33,640 | 1,104 | (NA) | (NA) | (NA) | 2,249 |
| 19 | Mineral industry only..... | 33 | 37 | 37 | 25 | 10,160 | 7,753 | 383 | 75 | 19 | 17 | 807 |
| 20 | 1958: | | | | | | | | | | | |
| | Including operations in manufactures..... | 36 | 64 | 64 | 19 | 34,172 | 29,753 | 1,219 | (NA) | (NA) | (NA) | 2,506 |
| 21 | Mineral industry only..... | 29 | 32 | 32 | 19 | 7,048 | 5,958 | 354 | 52 | 20 | 10 | 776 |
| 22 | 1954: | | | | | | | | | | | |
| | Including operations in manufactures..... | 38 | 64 | 61 | 22 | ¹⁶ 31,861 | 27,642 | 1,428 | (NA) | (NA) | (NA) | 2,984 |
| 23 | Mineral industry only..... | 34 | 37 | 34 | 22 | ¹⁶ 6,631 | 5,352 | 399 | 50 | 21 | 7 | 926 |
| 24 | 1939..... | 34 | (NA) | 59 | 25 | 4,569 | 3,756 | 1,327 | 97 | 7 | - | 2,466 |
| 25 | 1929..... | (NA) | 60 | 63 | (NA) | 5,740 | 4,516 | 2,078 | 134 | 2 | (NA) | (NA) |
| | Mica: | | | | | | | | | | | |
| 26 | 1963..... | 31 | 34 | 34 | 18 | ¹⁶ 5,560 | 3,925 | 357 | 41 | 9 | 9 | 733 |
| 27 | 1958..... | 142 | 149 | 149 | 56 | 6,216 | 4,974 | 649 | 78 | 189 | 115 | 1,204 |
| 28 | 1954 ¹⁰ | 446 | 498 | 510 | 444 | 4,092 | 3,284 | 668 | 42 | 549 | 432 | 1,196 |
| 29 | 1939 ¹⁰ | 22 | (NA) | 21 | 10 | 327 | 276 | 190 | 20 | 11 | 7 | 361 |
| 30 | 1929 ¹⁰ | (NA) | 24 | 32 | (NA) | 516 | 415 | 226 | 23 | 1 | (NA) | (NA) |
| | Native asphalt and bitumens: | | | | | | | | | | | |
| 31 | 1963..... | 11 | 13 | 13 | 10 | ¹⁶ 8,509 | 6,333 | 357 | 65 | 5 | 2 | 728 |
| 32 | 1958..... | 8 | 10 | 10 | 9 | 8,041 | 5,954 | 367 | 97 | 4 | - | 732 |
| 33 | 1954..... | 9 | 12 | 12 | 8 | 6,424 | 4,857 | 451 | 100 | 12 | 3 | 987 |
| 34 | 1939..... | 23 | (NA) | 23 | 15 | 2,968 | 2,554 | 730 | 123 | 7 | 1 | 1,330 |
| 35 | 1929..... | (NA) | 21 | 25 | (NA) | 5,124 | 4,345 | 1,123 | 183 | 1 | (NA) | (NA) |
| | Pumice and pumicite: | | | | | | | | | | | |
| 36 | 1963..... | 83 | 85 | 85 | 51 | 5,338 | 4,198 | 222 | 25 | 46 | 37 | 428 |
| 37 | 1958..... | 69 | 70 | 70 | 28 | 5,482 | 4,387 | 303 | 51 | 34 | 12 | 471 |
| 38 | 1954 ¹⁰ | 73 | 75 | 75 | 47 | ¹⁶ 3,393 | 2,741 | 223 | 44 | 59 | 35 | 440 |
| 39 | 1939 ¹⁰ | 15 | 17 | 17 | 14 | 387 | 301 | 122 | 5 | 12 | 5 | 197 |
| | Talc, soapstone, and pyrophyllite: | | | | | | | | | | | |
| 40 | 1963..... | 43 | 65 | 65 | 32 | 17,272 | 13,746 | 1,054 | 222 | 31 | 30 | 2,229 |
| 41 | 1958..... | 43 | 64 | 64 | 23 | ¹⁶ 14,908 | 11,755 | 1,123 | 171 | 34 | 17 | 2,289 |
| 42 | 1954..... | 54 | 68 | 75 | 39 | 11,563 | 9,486 | 1,297 | 174 | 30 | 14 | 2,778 |
| 43 | 1939..... | 29 | (NA) | 38 | 26 | 3,269 | 2,441 | 970 | 167 | 17 | 10 | 2,068 |
| 44 | 1929..... | (NA) | 25 | 28 | (NA) | 2,688 | 2,012 | 550 | 82 | - | - | (NA) |
| | Natural abrasives, except sand: | | | | | | | | | | | |
| 45 | 1963..... | 23 | 23 | 23 | 14 | 5,001 | 4,125 | 216 | 78 | 18 | 12 | 466 |
| 46 | 1958..... | 20 | 20 | 20 | 16 | 3,373 | 2,648 | 204 | 25 | 16 | 8 | 408 |
| 47 | 1954..... | 22 | 22 | 22 | 14 | 3,490 | 2,874 | 197 | 21 | 16 | 4 | 403 |
| 48 | 1939..... | 27 | (NA) | 36 | 25 | 1,335 | 1,115 | 383 | 60 | 12 | 3 | 798 |

See footnotes at end of table.

and Industry: 1963 and Earlier Years—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed ³ (\$1,000) | Capital expenditures (\$1,000) | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|--|------------------------------|--|------------------------------|--|----------------------------|---|--|---|--|---------------------------------------|---|--|----|
| Wages and salaries | | Supplies and purchases for resale ⁵ | Purchased fuels ⁵ | Purchased electric energy ⁵ | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | |
| 11,142 | 4,813 | ¹² 10,108 | 509 | 957 | 427 | 5,158 | 983 | 556 | 5,688 | 174 | 502 | 106 | 1 |
| 7,937 | 3,059 | ¹² 7,363 | 311 | 455 | 93 | 2,125 | 9 | 480 | 2,118 | - | 416 | (NA) | 2 |
| 7,117 | 1,454 | 5,351 | 335 | 367 | 244 | 1,534 | 53 | 873 | 1,259 | 1 | 549 | 48 | 3 |
| 1,434 | 540 | 868 | 153 | 151 | 3 | (NA) | (NA) | 149 | 143 | 69 | 336 | 23 | 4 |
| 10,578 | 10,019 | 4,994 | 7,546 | 50 | 451 | 799 | 3 | 77 | 986 | 20 | 11,583 | 151 | 5 |
| 13,267 | 11,303 | 7,363 | 6,440 | 45 | 7,496 | 7,077 | 16,282 | | | | 11,819 | (NA) | 6 |
| 14,619 | 6,567 | 14,055 | 5,629 | 44 | 2,833 | 2,803 | 3,069 | 3,110 | 2,635 | 31 | 12,854 | 159 | 7 |
| 2,545 | 1,911 | 1,690 | 1,128 | 15 | 116 | (NA) | (NA) | (NA) | 252 | 44 | 4,129 | 45 | 8 |
| 3,483 | 955 | 3,340 | 4,433 | 41 | 10 | 1,634 | 325 | (NA) | (NA) | (NA) | 7,318 | 34 | 9 |
| 3,773 | 2,189 | 5,742 | 109 | 363 | 37 | 199 | 72 | 178 | 847 | 16 | 110 | 39 | 10 |
| 6,137 | 1,613 | ¹² 5,913 | 133 | 446 | 114 | 157 | 748 | | | | 104 | (NA) | 11 |
| 3,836 | 1,085 | ¹² 806 | 57 | 86 | 439 | 984 | 116 | 658 | 1,299 | 7 | 171 | 43 | 12 |
| 204 | 37 | 95 | 7 | 34 | 8 | (NA) | (NA) | 3 | 15 | - | 6 | 3 | 13 |
| 4,209 | 372 | 2,667 | 602 | 70 | 951 | 1,064 | (X) | 280 | 922 | 232 | ¹⁵ 219 | 69 | 14 |
| 3,038 | 484 | 1,289 | 379 | 51 | 146 | 700 | (X) | 74 | 705 | 69 | ¹⁵ 105 | (NA) | 15 |
| 2,214 | 113 | 1,088 | 354 | 11 | 213 | 402 | (X) | 19 | 306 | 56 | ¹⁵ 96 | 39 | 16 |
| 320 | 48 | 124 | 113 | 4 | (NA) | (NA) | (X) | 53 | | | (NA) | 18 | 17 |
| 5,546 | (NA) | ⁵ 4,680 | ⁵ 297 | ⁵ 224 | ⁵ 450 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 18 |
| 1,913 | 493 | 1,851 | 297 | 224 | 450 | 864 | 90 | 206 | 862 | 121 | 122 | 32 | 19 |
| 5,264 | (NA) | ⁵ 4,304 | ⁵ 166 | ⁵ 118 | ⁵ 73 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 20 |
| 1,481 | 324 | 975 | 166 | 118 | 73 | 578 | 28 | 69 | 682 | 41 | 74 | (NA) | 21 |
| 5,572 | (NA) | ⁵ ¹² 3,864 | ⁵ 171 | ⁵ 140 | ⁵ 72 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) | 22 |
| 1,567 | 285 | ¹² 924 | 171 | 140 | 72 | 2,395 | 13 | 48 | 402 | 1,960 | 85 | 28 | 23 |
| 1,640 | 217 | 624 | 37 | 146 | 6 | (NA) | (NA) | 27 | 254 | 22 | 29 | 29 | 24 |
| 2,628 | 307 | 795 | 137 | 285 | 7 | 578 | 127 | (NA) | (NA) | (NA) | 172 | 26 | 25 |
| 1,299 | 283 | ¹² 1,375 | 212 | 228 | 176 | 504 | 96 | 95 | 448 | 221 | 113 | 25 | 26 |
| 1,709 | 298 | 995 | 336 | 206 | 304 | 577 | 315 | 218 | 434 | 204 | 115 | (NA) | 27 |
| 1,255 | 87 | 564 | 151 | 132 | 347 | 474 | 255 | 188 | 321 | 96 | 58 | 17 | 28 |
| 118 | 20 | 25 | 10 | 16 | - | (NA) | (NA) | 1 | 6 | 2 | 6 | 2 | 29 |
| 195 | 58 | 65 | 18 | 18 | - | 6 | 14 | (NA) | (NA) | (NA) | 20 | 2 | 30 |
| 1,723 | 518 | 1,085 | 178 | 342 | 1,025 | 627 | 391 | 199 | 480 | 11 | 75 | 34 | 31 |
| 1,398 | 867 | 1,538 | 79 | 270 | 406 | 517 | 175 | 19 | 510 | 19 | 50 | (NA) | 32 |
| 1,443 | 704 | 1,251 | 137 | 85 | 170 | 476 | 114 | 24 | 402 | 12 | 66 | 31 | 33 |
| 608 | 284 | 317 | 68 | 28 | 1 | (NA) | (NA) | 26 | 72 | 17 | 125 | 13 | 34 |
| 1,255 | 586 | 518 | 138 | 39 | 84 | 182 | 39 | (NA) | (NA) | 182 | 285 | 13 | 35 |
| 981 | 75 | 812 | 197 | 63 | 263 | 507 | 80 | 171 | 356 | 75 | 63 | 26 | 36 |
| 1,002 | 216 | ⁷ 911 | ⁷ 270 | ⁷ 68 | 159 | 312 | 54 | ⁸ 212 | ⁸ 250 | ⁸ 109 | 111 | (NA) | 37 |
| 748 | 214 | ¹² 334 | 119 | 40 | 276 | 298 | 32 | 98 | 99 | 186 | 56 | 26 | 38 |
| 119 | 7 | 45 | 30 | 11 | - | (NA) | (NA) | 4 | 9 | 4 | 19 | 2 | 39 |
| 5,390 | 1,237 | 2,973 | 269 | 662 | 302 | 468 | 205 | 220 | 630 | 93 | 151 | 48 | 40 |
| 4,157 | 1,163 | ¹² 2,428 | 291 | 547 | 276 | 509 | 128 | 169 | 482 | 119 | 153 | (NA) | 41 |
| 4,141 | 799 | 1,671 | 238 | 467 | 412 | 486 | 300 | 453 | 407 | 37 | 133 | 36 | 42 |
| 807 | 382 | 619 | 45 | 162 | 2 | (NA) | (NA) | 62 | 65 | 38 | 53 | 12 | 43 |
| 615 | 217 | 531 | 29 | 99 | 17 | 35 | 57 | (NA) | (NA) | (NA) | 59 | 11 | 44 |
| 1,048 | 535 | 900 | 157 | 151 | 88 | 79 | 12 | 258 | 203 | 25 | 70 | 17 | 45 |
| 801 | 206 | 513 | 181 | 22 | 70 | 88 | 1 | 42 | 106 | - | 73 | (NA) | 46 |
| 698 | 187 | 504 | 161 | 33 | 139 | 79 | 10 | 240 | 74 | 8 | 75 | 11 | 47 |
| 346 | 133 | 149 | 50 | 21 | - | (NA) | (NA) | 30 | 51 | 7 | 109 | 5 | 48 |

TABLE 4. Selected Statistics by Major Industry Group

(For explanation of column captions and for statement on the minimum size of establishments

| Major industry group, industry, and year | Operating companies (number) | Establishments (number) | | | Value of net shipments and receipts ² (\$1,000) | Value added in mining (\$1,000) | Persons engaged (number) | | | | Man-hours worked by production, development, and exploration workers (1,000) |
|--|---------------------------------|-------------------------|--|------------------------------|---|------------------------------------|--|------------------------------|---|-------------------------|---|
| | | Total | Including mining operations ¹ | Including preparation plants | | | Production, development, and exploration workers | Other employees ³ | Proprietors and firm members ⁴ | | |
| | | | | | | | | | Total | Performing manual labor | |
| Nonmetallic minerals mining--Continued | | | | | | | | | | | |
| Peat: | | | | | | | | | | | |
| 1 1963..... | 108 | 109 | 109 | 43 | 7,360 | 5,626 | 442 | 62 | 67 | 60 | 948 |
| 2 1958..... | 80 | 81 | 81 | 60 | 4,370 | 3,640 | 335 | 54 | 59 | 47 | 613 |
| 3 1954..... | 86 | 88 | 87 | 68 | 2,326 | 1,800 | 321 | 32 | 69 | 42 | 637 |
| 4 1939..... | 23 | (NA) | 25 | 23 | 378 | 338 | 157 | 27 | 11 | 4 | 246 |
| Nonmetallic minerals, n.e.c.: | | | | | | | | | | | |
| 5 1963..... | 81 | 87 | 87 | 68 | 42,911 | 32,619 | 1,578 | 300 | 25 | 22 | 3,324 |
| 6 1958..... | 47 | 55 | 55 | 39 | ¹⁶ 31,611 | 23,368 | 1,344 | 447 | 21 | 8 | 3,018 |
| 7 1954..... | 63 | 70 | 75 | 57 | 24,595 | 17,437 | 1,374 | 394 | 33 | 14 | 2,703 |
| 8 1939..... | 38 | (NA) | 37 | 30 | 3,041 | 2,153 | 630 | 104 | 16 | 5 | 1,395 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For 1954 and earlier years, except for the Crude Petroleum and Natural Gas Industry, represents number of mines. In addition, for 1954, about 1,400 oil and gas field service establishment reports included oil or gas mining operations as a secondary activity. The comparable figure for 1939 is not available.

²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same manufacturing establishment in making manufactured products.

³For 1963, 1958, and 1954, excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

⁴For 1963 and 1958, excludes data for all mining operations in manufacturing establishments. For 1954, see footnote 3.

⁵For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments in 1963, 1958, and 1954, the cost of purchased fuels, purchased electric energy, and contract work is included with the cost of supplies and purchases for resale.

⁶Excludes data for industries other than placer gold, bituminous coal, and crude petroleum and natural gas in Alaska and Hawaii.

⁷Figures for purchased fuels and electric energy in Alaska and Hawaii are included with those for supplies and purchases for resale. In the separate figures for sand and gravel, figures for contract work are also so combined.

and Industry: 1963 and Earlier Years—Continued

included for each year, see Introduction. For 1929, excludes data for service industries)

| Principal expenses (\$1,000) | | | | | | Purchased machinery installed ³ (\$1,000) | Capital expenditures (\$1,000) | | | | Energy used ³ (million kwh. equivalent) | Aggregate horsepower ⁴ (1,000) | |
|--|------------------------------|--|------------------------------|--|----------------------------|---|--|---|--|---------------------------------------|---|--|---|
| Wages and salaries | | Supplies and purchases for resale ² | Purchased fuels ⁵ | Purchased electric energy ⁶ | Contract work ⁵ | | Development and exploration of mineral property ⁴ | Preparation plant and other construction ³ | New machinery and equipment ³ | Used plant and equipment ³ | | | |
| Production, development, and exploration workers | Other employees ³ | | | | | | | | | | | | |
| 1,473 | 305 | 1,002 | 423 | 91 | 350 | 738 | 9 | 48 | 603 | 210 | 101 | 26 | 1 |
| 974 | 308 | 762 | 174 | 34 | 134 | 446 | 137 | 111 | 455 | 108 | 79 | (NA) | 2 |
| 829 | 111 | 321 | 174 | 31 | 46 | 159 | 34 | 43 | 104 | 24 | 87 | 24 | 3 |
| 101 | 43 | 21 | 15 | 4 | - | (NA) | (NA) | 8 | 10 | 8 | 7 | 3 | 4 |
| 8,961 | 2,240 | 126,488 | 1,762 | 1,399 | 2,542 | 3,664 | 637 | 1,456 | 3,028 | 390 | 1,127 | 104 | 5 |
| 5,950 | 2,660 | 126,264 | 1,239 | 915 | 1,144 | 2,869 | 198 | 982 | 2,729 | 279 | 716 | (NA) | 6 |
| 5,258 | 2,062 | 4,649 | 967 | 722 | 1,336 | 1,441 | 109 | 820 | 1,001 | 27 | 620 | 76 | 7 |
| 636 | 209 | 593 | 159 | 128 | 8 | (NA) | (NA) | (NA) | 64 | 4 | 197 | 13 | 8 |

⁸Figures for preparation plant and other construction and for used plant and equipment in Alaska and Hawaii are included with those for new machinery and equipment.⁹Excludes data for the Uranium-Radium-Vanadium Ores Industry.¹⁰Excludes data for Alaska and Hawaii.¹¹Represents number of mines and quarries, number of natural gas liquids plants, number of crude petroleum and natural gas establishments, and for mining services industries, number of operating companies.¹²Includes the cost of minerals received for preparation.¹³Figures for "other fuels" in Alaska are included with those for contract work; also for placer gold, figures for the cost of coal are so included.¹⁴Excludes data for nonproducing operations.¹⁵Excludes energy furnished without charge by operators of mineral properties.¹⁶Represents gross value of shipments and receipts.¹⁷Includes purchases for resale without further processing.¹⁸Excludes data for the Oil and Gas Field Services Industries.¹⁹Excludes data for common clay and shale operations. See also footnote 10.²⁰Represents combined figures for the Fire Clay Industry, the Kaolin and Ball Clay Industry, and the Clay and Related Minerals, N.E.C., Industry.²¹Except for number of establishments, excludes data for 2 lithium minerals mines.

TABLE 5. General Statistics by Geographic

| Geographic area and year | | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|---------------------------|------------------------|---------------------------|---------------|--------------------------|--|--------------------------|------------------------|--|--|
| | | Total ¹ | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | | |
| UNITED STATES | | | | | | | | | | |
| Mineral industries only: | | | | | | | | | | |
| 1 | 1963..... | 38,651 | 5,499 | 615,572 | 3,742,469 | 481,466 | 972,983 | 2,679,515 | 15,910,015 | |
| 2 | 1958..... | 36,392 | 6,045 | 733,941 | 3,749,015 | 565,392 | 1,080,512 | 2,611,980 | 13,385,195 | |
| 3 | 1954..... | 37,641 | 6,204 | 787,127 | 3,394,844 | 648,341 | 1,251,909 | 2,579,744 | ⁵ 11,558,664 | |
| Including operations in manufactures: | | | | | | | | | | |
| 4 | 1963..... | 40,532 | 5,743 | 637,001 | 3,842,987 | 501,734 | 1,013,821 | 2,773,193 | 16,231,255 | |
| 5 | 1958..... | 37,966 | 6,295 | 754,882 | 3,835,608 | 585,159 | 1,119,489 | 2,702,484 | 13,685,405 | |
| 6 | 1954 ⁷ | 38,858 | 6,466 | 807,387 | 3,466,101 | 667,821 | 1,291,472 | 2,646,825 | ⁵ 11,752,300 | |
| 7 | 1939 ^{8 9} | 25,023 | (NA) | 856,389 | 1,174,771 | 774,130 | 1,287,852 | 970,546 | 2,679,828 | |
| DIVISIONS AND STATES | | | | | | | | | | |
| New England: | | | | | | | | | | |
| Mineral industries only: | | | | | | | | | | |
| 8 | 1963..... | 350 | 58 | 3,950 | 22,914 | 3,159 | 6,776 | 16,659 | 42,353 | |
| 9 | 1958..... | 344 | 39 | 3,616 | 17,477 | 2,745 | 5,744 | 11,760 | 32,301 | |
| 10 | 1954..... | 385 | 40 | 4,069 | 15,683 | 3,456 | 7,581 | 12,434 | 32,104 | |
| Including operations in manufactures: | | | | | | | | | | |
| 11 | 1963..... | 450 | 78 | 6,401 | 34,945 | 5,387 | 11,457 | 27,145 | 67,516 | |
| 12 | 1958..... | 443 | 58 | 6,521 | 29,670 | 5,230 | 10,852 | 21,527 | 53,958 | |
| 13 | 1954 ⁷ | 456 | 56 | 6,001 | 23,142 | 5,215 | 11,149 | 18,950 | 46,785 | |
| 14 | 1939 ⁸ | 332 | (NA) | 4,944 | 6,603 | 4,272 | 8,659 | 4,863 | 14,415 | |
| Maine: | | | | | | | | | | |
| 15 | 1963..... | 64 | 8 | 510 | 2,119 | 475 | 973 | 1,955 | 3,699 | |
| 16 | 1958..... | 68 | 7 | 580 | 2,000 | 530 | 1,079 | 1,804 | 4,382 | |
| 17 | 1954 ⁷ | 77 | 10 | 699 | 2,268 | 653 | 1,330 | 2,060 | 4,304 | |
| 18 | 1939 ⁸ | 34 | (NA) | 420 | 448 | 379 | 659 | 376 | 1,134 | |
| New Hampshire: | | | | | | | | | | |
| 19 | 1963..... | 39 | 4 | 340 | 1,922 | 270 | 587 | 1,429 | 3,687 | |
| 20 | 1958..... | 45 | 4 | 328 | 1,534 | 282 | 579 | 1,166 | 2,751 | |
| 21 | 1954 ⁷ | 44 | 4 | 319 | 1,108 | 285 | 574 | 918 | 1,913 | |
| 22 | 1939 ⁸ | 25 | (NA) | 307 | 353 | 266 | 535 | 266 | 777 | |
| Vermont: | | | | | | | | | | |
| 23 | 1963..... | 61 | 14 | 2,064 | 9,449 | 1,857 | 4,024 | 8,198 | 16,355 | |
| 24 | 1958..... | 67 | 16 | 2,571 | 10,019 | 2,157 | 4,445 | 7,935 | 15,766 | |
| 25 | 1954 ⁷ | 62 | 16 | 2,050 | 7,445 | 1,881 | 4,009 | 6,524 | 15,512 | |
| 26 | 1939 ⁸ | 77 | (NA) | 1,695 | 2,016 | 1,574 | 3,148 | 1,719 | (NA) | |
| Massachusetts: | | | | | | | | | | |
| 27 | 1963..... | 158 | 31 | 2,222 | 13,318 | 1,699 | 3,550 | 9,037 | 25,304 | |
| 28 | 1958..... | 144 | 15 | 1,903 | 10,281 | 1,357 | 2,826 | 6,348 | 18,656 | |
| 29 | 1954 ⁷ | 148 | 16 | 1,907 | 8,074 | 1,609 | 3,382 | 6,291 | 14,719 | |
| 30 | 1939 ⁸ | 112 | (NA) | 1,568 | 2,528 | 1,206 | 2,512 | 1,486 | 4,610 | |
| Rhode Island: | | | | | | | | | | |
| 31 | 1963..... | 23 | 4 | 209 | 1,157 | 180 | 370 | 920 | 2,117 | |
| 32 | 1958..... | 22 | 4 | 212 | 897 | 174 | 322 | 704 | 1,863 | |
| 33 | 1954 ⁷ | 21 | 3 | 163 | 565 | 140 | 274 | 461 | 1,109 | |
| 34 | 1939 ⁸ | 21 | (NA) | 248 | 323 | 212 | 435 | 262 | 623 | |
| Connecticut: | | | | | | | | | | |
| 35 | 1963..... | 105 | 17 | 1,056 | 6,980 | 906 | 1,953 | 5,606 | 16,354 | |
| 36 | 1958..... | 97 | 12 | 927 | 4,939 | 730 | 1,601 | 3,570 | 10,540 | |
| 37 | 1954 ⁷ | 104 | 7 | 833 | 3,682 | 647 | 1,580 | 2,696 | 9,228 | |
| 38 | 1939 ⁸ | 63 | (NA) | 706 | 935 | 635 | 1,370 | 754 | 2,241 | |
| Middle Atlantic: | | | | | | | | | | |
| Mineral industries only: | | | | | | | | | | |
| 39 | 1963..... | 4,080 | 523 | 62,495 | 364,213 | 50,867 | 99,760 | 273,682 | 740,308 | |
| 40 | 1958..... | 4,500 | 636 | 87,398 | 418,758 | 72,795 | 124,374 | 324,407 | 733,341 | |
| 41 | 1954..... | 5,320 | 782 | 120,795 | 483,943 | 105,017 | 177,172 | 392,232 | ⁵ 767,158 | |
| Including operations in manufactures: | | | | | | | | | | |
| 42 | 1963..... | 4,322 | 565 | 65,418 | 378,920 | 53,722 | 105,496 | 287,955 | 786,488 | |
| 43 | 1958..... | 4,750 | 783 | 90,387 | 431,426 | 75,702 | 130,121 | 336,614 | 779,189 | |
| 44 | 1954 ⁷ | 5,541 | 842 | 124,321 | 497,033 | 108,461 | 184,141 | 404,916 | ⁵ 800,722 | |
| 45 | 1939 ⁸ | 3,953 | (NA) | 219,481 | 297,502 | 203,871 | 317,732 | 259,280 | 428,317 | |
| New York: | | | | | | | | | | |
| 46 | 1963..... | 590 | 79 | 10,654 | 75,123 | 7,405 | 15,458 | 45,167 | 141,771 | |
| 47 | 1958..... | 622 | 82 | 10,460 | 60,533 | 7,177 | 15,142 | 37,400 | 129,591 | |
| 48 | 1954 ⁷ | 694 | 80 | 12,364 | 66,310 | 8,469 | 18,612 | 38,544 | 104,719 | |
| 49 | 1939 ⁸ | 518 | (NA) | 8,737 | 15,430 | 7,044 | 14,682 | 9,696 | 32,817 | |

See footnotes at end of table.

Area: 1963 and Earlier Years

| Selected expenses (\$1,000) | | | | Value of shipments and receipts ⁴ | Capital expenditures ³ | Energy used ³ (kwh. equivalent) | | Aggregate horsepower ³ | | |
|--|-----------------------------------|----------------------------|--|--|-----------------------------------|--|-----------------------|-----------------------------------|-----------------------|----|
| Supplies, purchases for resale, and purchased fuels and electric energy ² | Minerals received for preparation | Contract work ² | Purchased machinery installed ² | | | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp.) | | |
| 3,261,942 | 2,670,235 | 1,918,322 | 1,123,639 | 21,620,538 | 3,263,615 | 436,435 | 906 | 52,772 | 110 | 1 |
| 2,885,122 | 1,756,351 | 1,861,899 | 1,017,578 | 18,102,041 | 2,804,104 | 405,631 | 717 | (NA) | (NA) | 2 |
| 2,347,709 | ⁵ 6708,930 | 1,828,519 | 1,214,263 | ⁵ 14,921,297 | 2,726,171 | 373,168 | 576 | 40,877 | 63 | 3 |
| 3,346,847 | 2,673,723 | 1,918,765 | 1,127,023 | 22,030,055 | 3,267,558 | 436,810 | 893 | 52,772 | 110 | 4 |
| 2,944,092 | 1,758,277 | 1,862,759 | 1,019,892 | 18,463,817 | 2,806,608 | 406,110 | 708 | (NA) | (NA) | 5 |
| 2,392,777 | ⁵ 6710,442 | 1,829,153 | 1,216,036 | ⁵ 15,162,011 | 2,728,080 | 373,770 | 553 | 41,045 | 61 | 6 |
| 531,992 | (NA) | 220,984 | (NA) | 3,432,804 | (NA) | 224,898 | 291 | 14,160 | 18 | 7 |
| 13,357 | 724 | 1,596 | 5,260 | 56,167 | 7,123 | 790 | 250 | 392 | 124 | 8 |
| 11,496 | 122 | 1,392 | 2,693 | 44,034 | 3,970 | 711 | 259 | (NA) | (NA) | 9 |
| 8,808 | 135 | 1,166 | 3,404 | 41,325 | 4,292 | 541 | 157 | 257 | 74 | 10 |
| 22,373 | 1,115 | 1,716 | 6,059 | 90,743 | 8,036 | 884 | 164 | 392 | 124 | 11 |
| 16,416 | 550 | 1,603 | 3,374 | 71,232 | 4,669 | 874 | 167 | (NA) | (NA) | 12 |
| 11,861 | 454 | 1,361 | 3,715 | 59,559 | 4,617 | 638 | 122 | 286 | 55 | 13 |
| 3,362 | (NA) | 37 | (NA) | 17,814 | (NA) | 404 | 95 | 143 | 33 | 14 |
| ¹⁰ 1,206 | (¹⁰) | 21 | ¹² 260 | 4,844 | ¹² 313 | 50 | 105 | 16 | 84 | 15 |
| ¹⁰ 1,419 | (¹⁰) | 82 | 280 | 5,703 | 460 | 90 | 170 | (NA) | (NA) | 16 |
| 848 | 121 | 91 | 327 | 5,242 | 449 | 46 | 70 | 21 | 32 | 17 |
| 143 | (NA) | 2 | (NA) | 1,279 | (NA) | 16 | 42 | 11 | 29 | 18 |
| ¹¹ 1,916 | ¹¹ 28 | ¹¹ 209 | ¹² 320 | 5,670 | ¹² 470 | 44 | 163 | 25 | 150 | 19 |
| ¹¹ 823 | 112 | ¹¹ 195 | ¹² 174 | 3,858 | ¹² 224 | ¹⁵ 34 | 121 | (NA) | (NA) | 20 |
| 565 | 51 | 66 | 188 | 2,510 | 273 | 29 | 102 | 15 | 53 | 21 |
| 126 | (NA) | - | (NA) | 903 | (NA) | 18 | 68 | 7 | 25 | 22 |
| ¹⁰ 6,657 | (¹⁰) | 165 | 990 | 22,599 | 1,568 | 204 | 110 | 47 | 64 | 23 |
| ¹⁰ 5,454 | (¹⁰) | 335 | 861 | 21,172 | 1,244 | 291 | 135 | (NA) | (NA) | 24 |
| 4,367 | 44 | 589 | 744 | 20,415 | 841 | 209 | 111 | 64 | 34 | 25 |
| 1,207 | (NA) | 6 | (NA) | 6,243 | (NA) | 93 | 59 | 32 | 20 | 26 |
| ¹⁰ 8,439 | (¹⁰) | 504 | 2,799 | 33,816 | 3,230 | 384 | 226 | 146 | 120 | 27 |
| 5,024 | - | 417 | 988 | 23,831 | 1,254 | 264 | 195 | (NA) | (NA) | 28 |
| 3,684 | 201 | 292 | 1,696 | 18,866 | 1,726 | 185 | 115 | 102 | 63 | 29 |
| 983 | (NA) | 6 | (NA) | 5,599 | (NA) | 157 | 130 | 58 | 48 | 30 |
| ¹⁰ 517 | (¹⁰) | 278 | 123 | 2,765 | 270 | 27 | 150 | 26 | 148 | 31 |
| ¹¹ 498 | (¹¹) | ¹¹ 56 | ¹² 161 | 2,382 | ¹² 222 | ¹² 29 | 167 | (NA) | (NA) | 32 |
| 372 | - | 21 | 166 | 1,447 | 221 | 26 | 186 | 19 | 136 | 33 |
| 203 | (NA) | 2 | (NA) | 828 | (NA) | 25 | 118 | 7 | 33 | 34 |
| ¹⁰ 4,836 | (¹⁰) | 428 | 1,326 | 21,049 | 1,895 | 175 | 193 | 132 | 197 | 35 |
| 3,737 | 10 | 407 | 766 | 14,286 | 1,174 | 162 | 222 | (NA) | (NA) | 36 |
| 2,025 | 37 | 302 | 594 | 11,079 | 1,107 | 143 | 221 | 65 | 100 | 37 |
| 700 | (NA) | 21 | (NA) | 2,962 | (NA) | 95 | 150 | 28 | 44 | 38 |
| 213,811 | 147,322 | 63,510 | 72,945 | 1,129,402 | 108,494 | 13,042 | 256 | 3,995 | 79 | 39 |
| 208,131 | 164,191 | 81,853 | 65,188 | 1,160,015 | 92,689 | 14,926 | 205 | (NA) | (NA) | 40 |
| 189,381 | ⁵ 6177,420 | 102,288 | 68,629 | ⁵ 1,229,313 | 75,539 | 19,300 | 184 | 4,994 | 48 | 41 |
| 226,823 | 147,387 | 63,563 | 73,131 | 1,188,674 | 108,718 | 13,077 | 243 | 3,995 | 79 | 42 |
| 216,227 | 164,236 | 81,874 | ¹³ 65,407 | 1,213,971 | ¹³ 92,962 | 14,958 | 198 | (NA) | (NA) | 43 |
| 198,416 | ⁵ 6177,431 | 102,367 | 68,717 | ⁵ 1,271,938 | 75,691 | 19,360 | 178 | 5,015 | 46 | 44 |
| 83,386 | (NA) | 17,539 | (NA) | 529,242 | (NA) | 30,072 | 148 | 2,772 | 14 | 45 |
| 39,199 | 3,320 | 5,103 | 8,444 | 182,449 | 15,388 | 3,185 | 430 | 734 | 110 | 46 |
| 31,925 | 4,979 | 4,038 | 6,058 | 163,658 | 12,933 | 2,772 | 386 | (NA) | (NA) | 47 |
| 28,672 | 340 | 5,028 | 12,234 | 138,508 | 12,485 | 3,268 | 386 | 687 | 81 | 48 |
| 6,982 | (NA) | 1,431 | (NA) | 41,230 | (NA) | 1,700 | 241 | 285 | 40 | 49 |

TABLE 5. General Statistics by Geographic

| Geographic area and year | | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|---------------------------------------|-------------------------|------------------------|---------------------------|---------------|--------------------------|--|--------------------------|------------------------|--|
| | | Total ¹ | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| DIVISIONS AND STATES—Continued | | | | | | | | | |
| Middle Atlantic:—Continued | | | | | | | | | |
| Incl. operations in manufactures—Con. | | | | | | | | | |
| New Jersey: | | | | | | | | | |
| 1 | 1963..... | 182 | 49 | 4,018 | 24,935 | 3,195 | 7,001 | 18,105 | 59,384 |
| 2 | 1958..... | 150 | 44 | 3,859 | 19,955 | 2,923 | 5,814 | 13,836 | 40,663 |
| 3 | 1954 ⁷ | 166 | 41 | 4,190 | 18,769 | 3,543 | 7,948 | 15,172 | ⁵ 38,965 |
| 4 | 1939 ⁸ | 137 | (NA) | 3,978 | 5,926 | 3,369 | 6,451 | 4,314 | 11,103 |
| Pennsylvania: | | | | | | | | | |
| 5 | 1963..... | 3,550 | 437 | 50,746 | 278,862 | 43,122 | 83,037 | 224,683 | 585,333 |
| 6 | 1958..... | 3,978 | 557 | 76,068 | 350,938 | 65,602 | 109,165 | 285,378 | 608,935 |
| 7 | 1954 ⁷ | 4,681 | 721 | 107,767 | 411,954 | 96,449 | 157,581 | 351,200 | 657,038 |
| 8 | 1939 ⁸ | 3,298 | (NA) | 206,766 | 276,146 | 193,458 | 296,599 | 245,270 | 384,397 |
| East North Central: | | | | | | | | | |
| Mineral industries only: | | | | | | | | | |
| 9 | 1963..... | 4,753 | 570 | 62,234 | 373,643 | 50,762 | 101,801 | 288,514 | 1,042,467 |
| 10 | 1958..... | 4,313 | 659 | 74,732 | 385,398 | 60,937 | 114,357 | 292,921 | 936,363 |
| 11 | 1954..... | 4,636 | 691 | 81,411 | 349,426 | 69,142 | 131,846 | 280,043 | 813,435 |
| Including operations in manufactures: | | | | | | | | | |
| 12 | 1963..... | 5,145 | 617 | 66,589 | 395,158 | 54,882 | 110,003 | 308,435 | 1,106,078 |
| 13 | 1958..... | 4,662 | 712 | 78,967 | 404,040 | 64,974 | 122,056 | 310,336 | 994,314 |
| 14 | 1954 ⁷ | 4,912 | 743 | 86,251 | 367,576 | 73,815 | 141,163 | 297,258 | 853,641 |
| 15 | 1939 ⁸ | 3,989 | (NA) | 107,980 | 142,184 | 98,084 | 161,491 | 119,026 | 316,939 |
| Ohio: | | | | | | | | | |
| 16 | 1963..... | 1,704 | 198 | 19,250 | 112,315 | 15,756 | 31,810 | 84,179 | 247,090 |
| 17 | 1958..... | 1,599 | 210 | 22,268 | 114,990 | 17,359 | 32,686 | 79,924 | 213,647 |
| 18 | 1954 ⁷ | 1,793 | 220 | 23,742 | 98,839 | 19,510 | 37,247 | 74,881 | 184,997 |
| 19 | 1939 ⁸ | 1,407 | (NA) | 27,343 | 33,852 | 24,948 | 41,312 | 28,749 | 51,914 |
| Indiana: | | | | | | | | | |
| 20 | 1963..... | 781 | 88 | 8,761 | 48,844 | 7,219 | 14,444 | 38,770 | 123,361 |
| 21 | 1958..... | 781 | 109 | 10,418 | 50,579 | 8,591 | 15,783 | 38,547 | 117,928 |
| 22 | 1954 ⁷ | 815 | 113 | 11,039 | 45,112 | 9,576 | 17,863 | 36,443 | 98,331 |
| 23 | 1939 ⁸ | 576 | (NA) | 12,396 | 15,854 | 11,398 | 18,542 | 13,671 | 28,094 |
| Illinois: | | | | | | | | | |
| 24 | 1963..... | 1,521 | 215 | 22,675 | 138,394 | 18,657 | 37,593 | 109,690 | 461,558 |
| 25 | 1958..... | 1,375 | 258 | 27,482 | 144,359 | 23,218 | 43,891 | 114,715 | 462,230 |
| 26 | 1954 ⁷ | 1,384 | 269 | 30,494 | 128,189 | 26,964 | 49,370 | 108,516 | 378,595 |
| 27 | 1939 ⁸ | 1,233 | (NA) | 48,887 | 65,418 | 44,422 | 68,509 | 54,325 | 165,538 |
| Michigan: | | | | | | | | | |
| 28 | 1963..... | 742 | 83 | 12,448 | 76,736 | 10,427 | 20,485 | 60,996 | 232,724 |
| 29 | 1958..... | 574 | 91 | 14,672 | 74,712 | 12,210 | 22,699 | 60,782 | 165,464 |
| 30 | 1954 ⁷ | 591 | 98 | 16,693 | 77,342 | 13,991 | 28,762 | 62,160 | 153,036 |
| 31 | 1939 ⁸ | 620 | (NA) | 17,032 | 23,943 | 15,223 | 28,951 | 19,677 | 64,933 |
| Wisconsin: | | | | | | | | | |
| 32 | 1963..... | 397 | 33 | 3,455 | 18,869 | 2,823 | 5,671 | 14,800 | 41,345 |
| 33 | 1958..... | 333 | 44 | 4,127 | 19,400 | 3,596 | 6,997 | 16,368 | 35,045 |
| 34 | 1954 ⁷ | 329 | 43 | 4,283 | 18,094 | 3,774 | 7,921 | 15,258 | 38,682 |
| 35 | 1939 ⁸ | 153 | (NA) | 2,322 | 3,117 | 2,093 | 4,177 | 2,604 | 6,460 |
| West North Central: | | | | | | | | | |
| Mineral industries only: | | | | | | | | | |
| 36 | 1963..... | 3,551 | 393 | 44,119 | 249,771 | 34,852 | 70,324 | 180,932 | 1,069,300 |
| 37 | 1958..... | 3,221 | 452 | 50,928 | 253,055 | 38,591 | 76,427 | 174,836 | 918,673 |
| 38 | 1954..... | 3,320 | 470 | 51,567 | 213,366 | 43,170 | 86,965 | 167,642 | ⁵ 785,763 |
| Including operations in manufactures: | | | | | | | | | |
| 39 | 1963..... | 3,767 | 422 | 46,405 | 260,529 | 36,948 | 74,712 | 190,378 | 1,106,535 |
| 40 | 1958..... | 3,384 | 484 | 53,600 | 264,617 | 41,081 | 81,570 | 184,952 | 956,496 |
| 41 | 1954 ⁷ | 3,435 | 499 | 54,163 | 223,255 | 45,589 | 92,437 | 176,690 | ⁵ 813,247 |
| 42 | 1939 ⁸ | 2,242 | (NA) | 44,826 | 59,270 | 39,593 | 70,332 | 46,611 | 213,735 |
| Minnesota: | | | | | | | | | |
| 43 | 1963..... | 365 | 73 | 13,679 | 93,324 | 10,295 | 19,704 | 61,237 | 372,995 |
| 44 | 1958..... | 317 | 96 | 18,164 | 101,547 | 12,600 | 24,207 | 63,039 | 319,677 |
| 45 | 1954 ⁷ | 300 | 88 | 17,756 | 78,444 | 14,499 | 27,923 | 58,942 | 293,990 |
| 46 | 1939 ⁸ | 178 | (NA) | 8,145 | 13,385 | 6,866 | 13,215 | 9,987 | 91,572 |
| Iowa: | | | | | | | | | |
| 47 | 1963..... | 343 | 39 | 2,965 | 14,988 | 2,560 | 5,915 | 12,064 | 41,952 |
| 48 | 1958..... | 335 | 44 | 3,146 | 13,620 | 2,689 | 5,884 | 10,863 | 41,102 |
| 49 | 1954 ⁷ | 364 | 34 | 2,974 | 10,505 | 2,677 | 6,049 | 9,295 | 27,316 |
| 50 | 1939 ⁸ | 383 | (NA) | 5,928 | 6,059 | 5,589 | 8,595 | 5,489 | 8,963 |

See footnotes at end of table.

Area: 1963 and Earlier Years--Continued

| Selected expenses (\$1,000) | | | | Value of shipments and receipts ⁴ | Capital expenditures ³ | Energy used ³ (kwh. equivalent) | | Aggregate horsepower ³ | | |
|--|-----------------------------------|----------------------------|--|--|-----------------------------------|--|-----------------------|-----------------------------------|-----------------------|----|
| Supplies, purchases for resale, and purchased fuels and electric energy ² | Minerals received for preparation | Contract work ³ | Purchased machinery installed ³ | | | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp.) | | |
| 19,553 | 641 | 723 | 5,142 | 77,863 | 7,580 | 910 | 285 | 256 | 89 | 1 |
| 11,974 | 80 | 830 | ¹³ 2,311 | 51,961 | ¹³ 3,897 | 655 | 224 | (NA) | (NA) | 2 |
| 11,301 | ⁵ 482 | 1,283 | 3,477 | ⁵ 51,455 | 4,029 | 699 | 197 | 208 | 59 | 3 |
| 2,926 | (NA) | 95 | (NA) | 14,124 | (NA) | 652 | 194 | 91 | 27 | 4 |
| 168,071 | 143,426 | 57,737 | 59,545 | 928,362 | 85,750 | 8,982 | 208 | 3,005 | 73 | 5 |
| 172,328 | 159,177 | 77,006 | 57,038 | 998,352 | 76,132 | 11,531 | 176 | (NA) | (NA) | 6 |
| 158,443 | ⁶ 176,609 | 96,056 | 53,006 | 1,081,975 | 59,177 | 15,393 | 143 | 4,120 | 43 | 7 |
| 73,478 | (NA) | 16,013 | (NA) | 473,888 | (NA) | 27,720 | 134 | 2,396 | 12 | 8 |
| 276,176 | 153,115 | 108,065 | 111,602 | 1,487,774 | 203,651 | 18,707 | 369 | 5,379 | 106 | 9 |
| 245,385 | 130,043 | 66,048 | 73,860 | 1,324,808 | 126,891 | 18,184 | 298 | (NA) | (NA) | 10 |
| 198,264 | ⁶ 60,623 | 81,106 | 99,520 | 1,094,500 | 158,448 | 16,318 | 236 | 4,274 | 62 | 11 |
| 292,685 | 153,255 | 108,174 | 112,248 | 1,567,987 | 204,453 | 18,824 | 343 | 5,379 | 106 | 12 |
| 256,869 | 130,069 | 66,267 | ¹³ 74,453 | 1,394,462 | ¹³ 127,510 | 18,317 | 282 | (NA) | (NA) | 13 |
| 207,177 | ⁶ 60,659 | 81,202 | 100,208 | 1,143,779 | 159,108 | 16,597 | 225 | 4,324 | 57 | 14 |
| 56,604 | (NA) | 28,744 | (NA) | 402,287 | (NA) | 18,071 | 184 | 1,953 | 20 | 15 |
| 76,537 | 22,662 | 16,943 | 31,109 | 348,402 | 45,939 | 3,782 | 240 | 1,576 | 111 | 16 |
| 67,452 | 29,599 | 12,844 | 19,228 | 313,654 | 29,116 | 2,927 | 169 | (NA) | (NA) | 17 |
| 48,003 | ⁶ 10,735 | 11,249 | 19,844 | 250,045 | 24,783 | 2,790 | 143 | 1,052 | 54 | 18 |
| 10,843 | (NA) | 1,473 | (NA) | 64,230 | (NA) | 2,715 | 109 | 367 | 15 | 19 |
| ¹⁰ 36,020 | (¹⁰) | 7,981 | 16,422 | 163,909 | 19,875 | 1,933 | 268 | 614 | 104 | 20 |
| 30,468 | 2,372 | 6,220 | 12,922 | 154,118 | 15,792 | 1,724 | 201 | (NA) | (NA) | 21 |
| 25,502 | 18,429 | 6,589 | 13,270 | 145,816 | 16,305 | 1,506 | 157 | 572 | 60 | 22 |
| 7,955 | (NA) | 1,338 | (NA) | 37,387 | (NA) | 1,888 | 166 | 239 | 21 | 23 |
| 98,787 | 98,679 | ¹⁴ 21,332 | ¹⁴ 44,715 | 668,120 | ¹⁴ 56,951 | 5,736 | 307 | 1,567 | 87 | 24 |
| 100,060 | 81,294 | 28,071 | 31,155 | 649,841 | 52,969 | 8,648 | 372 | (NA) | (NA) | 25 |
| 77,986 | ⁶ 23,804 | 41,728 | 38,327 | 496,815 | 63,625 | 7,909 | 293 | 1,429 | 53 | 26 |
| 23,710 | (NA) | 22,406 | (NA) | 211,654 | (NA) | 8,705 | 196 | 839 | 19 | 27 |
| 65,033 | 30,701 | ¹⁴ 59,655 | ¹⁴ 15,500 | 327,464 | ¹⁴ 76,149 | 6,682 | 641 | 1,257 | 124 | 28 |
| 45,504 | 15,783 | 17,070 | ¹³ 8,450 | 227,286 | ¹³ 24,985 | 4,304 | 352 | (NA) | (NA) | 29 |
| 42,609 | ⁶ 6,922 | 20,116 | 23,520 | 199,440 | 46,763 | 3,669 | 262 | 942 | 67 | 30 |
| 12,162 | (NA) | 3,509 | (NA) | 80,604 | (NA) | 4,525 | 297 | 435 | 29 | 31 |
| ¹⁰ 17,521 | (¹⁰) | 2,263 | 4,502 | 60,092 | 5,539 | 691 | 245 | 365 | 146 | 32 |
| 13,385 | 1,021 | 2,062 | 2,698 | 49,563 | 4,648 | 714 | 199 | (NA) | (NA) | 33 |
| 13,077 | 769 | 1,520 | 5,247 | 51,663 | 7,632 | 723 | 192 | 329 | 87 | 34 |
| 1,934 | (NA) | 18 | (NA) | 8,412 | (NA) | 238 | 114 | 73 | 35 | 35 |
| 242,012 | 160,375 | 107,865 | 73,747 | 1,476,680 | 176,619 | 28,116 | 807 | 4,892 | 140 | 36 |
| 225,172 | 93,109 | 106,445 | 69,131 | 1,267,166 | 145,078 | 23,645 | 613 | (NA) | (NA) | 37 |
| 174,159 | ⁵ ⁶ 10,280 | 130,828 | 104,617 | ⁵ 1,006,491 | 199,102 | 18,755 | 434 | 3,649 | 85 | 38 |
| 250,203 | 161,690 | 107,876 | 74,096 | 1,523,394 | 177,006 | 28,154 | 762 | 4,892 | 140 | 39 |
| ¹¹ 235,115 | ¹¹ 93,109 | 106,445 | ¹³ 69,326 | 1,315,218 | ¹³ 145,273 | 23,715 | 577 | (NA) | (NA) | 40 |
| 182,462 | ⁵ ⁶ 11,252 | 131,039 | 104,929 | ⁵ 1,043,418 | 199,457 | 18,842 | 413 | 3,671 | 81 | 41 |
| 26,298 | (NA) | 12,936 | (NA) | 252,969 | (NA) | 7,324 | 185 | 1,125 | 28 | 42 |
| ¹¹ 98,539 | 46,781 | 5,229 | 10,489 | 508,719 | 25,314 | 10,925 | 1,061 | 1,757 | 177 | 43 |
| 78,944 | 29,743 | 10,993 | 7,583 | 431,635 | 15,305 | 7,878 | 625 | (NA) | (NA) | 44 |
| 58,948 | ⁵ 138 | 30,771 | 25,800 | 350,424 | 64,223 | 2,713 | 187 | 1,240 | 86 | 45 |
| 7,258 | (NA) | 106 | (NA) | 98,936 | (NA) | 1,715 | 250 | 318 | 46 | 46 |
| 13,303 | 564 | 1,717 | ¹⁴ 3,397 | 55,441 | ¹⁴ 5,472 | 638 | 249 | 320 | 142 | 47 |
| 12,936 | 368 | 2,113 | ¹² 4,467 | 54,633 | ¹² 6,353 | 941 | 350 | (NA) | (NA) | 48 |
| 10,395 | 14 | 1,526 | 3,731 | 39,177 | 3,805 | 682 | 255 | 284 | 106 | 49 |
| 1,827 | (NA) | 54 | (NA) | 10,844 | (NA) | 201 | 36 | 66 | 12 | 50 |

TABLE 5. General Statistics by Geographic

| | Geographic area and year | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|----|---|------------------------|---------------------------|---------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | | Total ¹ | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| | DIVISION AND STATES—Continued | | | | | | | | |
| | West North Central:—Continued | | | | | | | | |
| | Incl. operations in manufactures—Con. | | | | | | | | |
| | Missouri: | | | | | | | | |
| 1 | 1963..... | 496 | 75 | 8,745 | 42,809 | 6,763 | 13,229 | 31,230 | 80,847 |
| 2 | 1958..... | 469 | 80 | 9,331 | 41,659 | 7,145 | 13,826 | 29,553 | 78,292 |
| 3 | 1954 ⁷ | 485 | 83 | 8,854 | 34,490 | 7,548 | 15,419 | 27,621 | ⁵ 68,571 |
| 4 | 1939 ⁸ | 491 | (NA) | 10,861 | 12,666 | 9,320 | 16,529 | 8,968 | 21,036 |
| | North Dakota: | | | | | | | | |
| 5 | 1963..... | 191 | 23 | 1,711 | 9,829 | 1,381 | 2,884 | 7,723 | 74,034 |
| 6 | 1958..... | 172 | 25 | 1,967 | 10,737 | 1,564 | 3,477 | 8,056 | 40,410 |
| 7 | 1954 ⁷ | 147 | 26 | 1,798 | 8,619 | 1,399 | 2,956 | 6,319 | ⁵ 7,151 |
| 8 | 1939 ⁸ | 108 | (NA) | 960 | 1,042 | 874 | 1,724 | 871 | 2,027 |
| | South Dakota: | | | | | | | | |
| 9 | 1963..... | 141 | 17 | 2,725 | 14,532 | 2,372 | 5,219 | 12,359 | 27,340 |
| 10 | 1958..... | 142 | 16 | 2,742 | 13,322 | 2,378 | 4,951 | 11,258 | 26,256 |
| 11 | 1954 ⁷ | 191 | 25 | 3,001 | 12,254 | 2,606 | 5,872 | 10,321 | ⁵ 23,333 |
| 12 | 1939 ⁸ | 59 | (NA) | 2,922 | 5,542 | 2,647 | 5,988 | 4,690 | 20,689 |
| | Nebraska: | | | | | | | | |
| 13 | 1963..... | 379 | 22 | 2,197 | 11,570 | 1,786 | 3,919 | 9,039 | 70,619 |
| 14 | 1958..... | 317 | 29 | 2,181 | 9,571 | 1,818 | 3,629 | 7,624 | 65,871 |
| 15 | 1954 ⁷ | 259 | 22 | 1,734 | 6,960 | 1,531 | 3,450 | 6,062 | 30,082 |
| 16 | 1939 ⁸ | 67 | (NA) | 531 | 451 | 470 | 1,041 | 365 | 930 |
| | Kansas: | | | | | | | | |
| 17 | 1963..... | 1,852 | 173 | 14,383 | 73,477 | 11,791 | 23,842 | 56,726 | 438,748 |
| 18 | 1958..... | 1,632 | 194 | 16,069 | 74,161 | 12,887 | 25,596 | 54,559 | 384,888 |
| 19 | 1954 ⁷ | 1,689 | 221 | 18,046 | 71,983 | 15,329 | 30,768 | 58,130 | 362,804 |
| 20 | 1939 ⁸ | 956 | (NA) | 15,479 | 20,125 | 13,827 | 23,240 | 16,241 | 68,518 |
| | South Atlantic: | | | | | | | | |
| | Mineral industries only: | | | | | | | | |
| 21 | 1963..... | 4,447 | 802 | 82,179 | 434,279 | 72,264 | 140,768 | 366,226 | 1,011,629 |
| 22 | 1958..... | 4,701 | 899 | 106,066 | 478,296 | 92,417 | 161,799 | 399,482 | 939,989 |
| 23 | 1954..... | 4,227 | 808 | 108,999 | 421,261 | 98,602 | 176,135 | 366,985 | ⁵ 761,393 |
| | Including operations in manufactures: | | | | | | | | |
| 25 | 1963..... | 4,704 | 837 | 85,411 | 447,223 | 75,283 | 146,685 | 378,035 | 1,045,150 |
| 26 | 1958..... | 4,875 | 930 | 108,816 | 487,949 | 95,002 | 166,763 | 408,309 | 969,764 |
| 27 | 1954 ⁷ | 4,380 | 843 | 111,848 | 429,574 | 101,328 | 181,592 | 374,640 | ⁵ 782,793 |
| 28 | 1939 ⁸ | 2,141 | (NA) | 141,898 | 173,211 | 134,746 | 211,365 | 157,882 | 243,276 |
| | Delaware, Maryland, and District of Columbia: | | | | | | | | |
| 29 | 1963..... | 207 | 36 | 2,838 | 14,259 | 2,437 | 5,108 | 11,068 | 39,808 |
| 30 | 1958..... | 208 | 31 | 2,542 | 10,632 | 2,195 | 4,191 | 8,386 | 27,510 |
| 31 | 1954 ⁷ | 216 | 32 | 2,171 | 7,599 | 1,944 | 4,374 | 6,604 | 20,572 |
| 32 | 1939 ⁸ | 180 | (NA) | 3,850 | 3,937 | 3,599 | 6,090 | 3,417 | 7,243 |
| | Virginia: | | | | | | | | |
| 33 | 1963..... | 985 | 210 | 16,225 | 69,403 | 14,539 | 26,656 | 60,247 | 151,762 |
| 34 | 1958..... | 1,066 | 204 | 18,600 | 70,371 | 16,240 | 27,460 | 59,154 | 142,571 |
| 35 | 1954 ⁷ | 788 | 164 | 16,864 | 55,064 | 15,123 | 26,508 | 47,156 | 96,014 |
| 36 | 1939 ⁸ | 257 | (NA) | 20,061 | 20,942 | 19,010 | 28,998 | 18,888 | 28,642 |
| | West Virginia: | | | | | | | | |
| 37 | 1963..... | 2,715 | 376 | 47,769 | 277,793 | 42,577 | 80,081 | 239,258 | 599,405 |
| 38 | 1958..... | 2,826 | 474 | 68,715 | 334,601 | 60,272 | 101,060 | 283,397 | 607,943 |
| 39 | 1954 ⁷ | 2,339 | 467 | 75,073 | 308,745 | 68,698 | 115,644 | 274,014 | 515,807 |
| 40 | 1939 ⁸ | 1,351 | (NA) | 107,260 | 139,827 | 102,302 | 156,344 | 128,978 | 187,547 |
| | North Carolina: | | | | | | | | |
| 41 | 1963..... | 226 | 48 | 3,107 | 12,602 | 2,726 | 5,815 | 10,218 | 35,180 |
| 42 | 1958..... | 267 | 57 | 4,265 | 13,929 | 3,844 | 7,764 | 11,711 | 31,757 |
| 43 | 1954 ⁷ | 546 | 46 | 4,047 | 11,642 | 3,784 | 8,337 | 10,303 | ⁵ 33,143 |
| 44 | 1939 ⁸ | 111 | (NA) | 1,965 | 1,443 | 1,787 | 3,720 | 1,123 | 3,448 |
| | South Carolina: | | | | | | | | |
| 45 | 1963..... | 94 | 26 | 1,763 | 7,270 | 1,571 | 3,531 | 6,097 | 20,544 |
| 46 | 1958..... | 86 | 22 | 1,591 | 5,546 | 1,350 | 2,768 | 4,303 | 14,499 |
| 47 | 1954 ⁷ | 72 | 19 | 1,518 | 4,356 | 1,372 | 3,102 | 3,591 | 11,229 |
| 48 | 1939 ⁸ | 46 | (NA) | 1,388 | 1,064 | 1,291 | 2,756 | 782 | 2,389 |
| | Georgia: | | | | | | | | |
| 49 | 1963..... | 218 | 77 | 6,978 | 32,328 | 6,105 | 12,995 | 26,624 | 83,932 |
| 50 | 1958..... | 202 | 70 | 6,182 | 22,737 | 5,393 | 11,378 | 18,273 | 58,048 |
| 51 | 1954 ⁷ | 220 | 58 | 5,286 | 15,742 | 4,782 | 10,490 | 13,016 | 37,326 |
| 52 | 1939 ⁸ | 110 | (NA) | 3,906 | 2,808 | 3,674 | 7,440 | 2,279 | 5,864 |

See footnotes at end of table.

Area: 1963 and Earlier Years—Continued

| Selected expenses (\$1,000) | | | | Value of shipments and receipts ⁴ | Capital expenditures ³ | Energy used ³ (kwh. equivalent) | | Aggregate horsepower ³ | | |
|--|-----------------------------------|----------------------------|--|--|-----------------------------------|--|-----------------------|-----------------------------------|-----------------------|----|
| Supplies, purchases for resale, and purchased fuels and electric energy ² | Minerals received for preparation | Contract work ³ | Purchased machinery installed ³ | | | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp.) | | |
| 31,346 | 1,436 | 9,597 | 14,287 | 114,809 | 22,704 | 1,298 | 192 | 602 | 103 | 1 |
| ¹⁰ 26,030 | (¹⁰) | 3,544 | 8,881 | 103,286 | 13,461 | 1,312 | 184 | (NA) | (NA) | 2 |
| 18,676 | ⁵ 2,459 | 2,869 | 6,160 | ⁵ 92,869 | 5,888 | 1,260 | 167 | 494 | 65 | 3 |
| 6,077 | (NA) | 259 | (NA) | 27,372 | (NA) | 786 | 84 | 224 | 24 | 4 |
| ¹⁰ 16,381 | (¹⁰) | 10,737 | 10,214 | 93,531 | 17,835 | 1,856 | 1,344 | 248 | 182 | 5 |
| ¹⁰ 20,247 | (¹⁰) | 21,411 | 9,579 | 65,732 | 25,915 | 805 | 515 | (NA) | (NA) | 6 |
| ⁵ ⁶ ¹⁰ 9,542 | (¹⁰) | 20,305 | 14,008 | ⁵ 28,694 | 22,312 | 745 | 533 | 107 | 76 | 7 |
| 471 | (NA) | 5 | (NA) | 2,503 | (NA) | 180 | 206 | 15 | 17 | 8 |
| ¹⁰ 12,811 | (¹⁰) | 1,987 | ¹⁴ 1,060 | 40,178 | ¹⁴ 3,040 | 500 | 211 | 146 | 66 | 9 |
| ¹⁰ 10,505 | (¹⁰) | 782 | 1,583 | 36,544 | 2,582 | 489 | 206 | (NA) | (NA) | 10 |
| 7,780 | ⁵ 592 | 2,273 | 2,114 | ⁵ 32,454 | 3,562 | 766 | 294 | 133 | 51 | 11 |
| 2,172 | (NA) | 21 | (NA) | 22,882 | (NA) | 557 | 210 | 46 | 17 | 12 |
| ¹⁰ 15,154 | (¹⁰) | 9,654 | 4,555 | 89,332 | 10,650 | 1,614 | 904 | 256 | 149 | 13 |
| ¹⁰ 14,852 | (¹⁰) | 11,521 | ¹² 5,322 | 83,253 | ¹² 14,313 | 1,457 | 801 | (NA) | (NA) | 14 |
| ⁶ ¹⁰ 7,651 | (¹⁰) | 8,659 | 8,395 | 38,400 | 16,387 | 692 | 452 | 158 | 103 | 15 |
| 348 | (NA) | 73 | (NA) | 1,351 | (NA) | 56 | 119 | 16 | 34 | 16 |
| 76,001 | 99,577 | 68,955 | 30,094 | 621,384 | 91,991 | 11,323 | 960 | 1,563 | 136 | 17 |
| 78,525 | 56,074 | 56,081 | 31,911 | 540,135 | 67,344 | 10,833 | 841 | (NA) | (NA) | 18 |
| 69,605 | ⁶ 2,914 | 64,636 | 44,721 | 461,400 | 83,280 | 11,839 | 772 | 1,255 | 82 | 19 |
| 8,145 | (NA) | 12,418 | (NA) | 89,081 | (NA) | 3,829 | 277 | 440 | 31 | 20 |
| 307,651 | 247,373 | 55,261 | 89,191 | 1,574,915 | 136,190 | 19,637 | 272 | 4,528 | 63 | 21 |
| ¹⁵ 281,858 | ¹⁵ 194,560 | 43,227 | 93,637 | 1,411,426 | 141,845 | 14,697 | 159 | (NA) | (NA) | 22 |
| 238,995 | ⁵ ⁶ 102,110 | 39,317 | 75,363 | ⁵ 1,118,407 | 98,768 | 12,953 | 131 | 3,274 | 33 | 23 |
| 318,865 | 248,230 | 55,369 | 89,821 | 1,620,521 | 136,914 | 19,681 | 261 | 4,528 | 63 | 24 |
| ¹⁵ 287,827 | ¹⁵ 194,842 | 43,251 | ¹³ 93,996 | 1,447,446 | ¹³ 142,234 | 14,740 | 155 | (NA) | (NA) | 25 |
| 243,903 | ⁵ ⁶ 102,145 | 39,332 | 75,549 | ⁵ 1,144,729 | 98,990 | 12,994 | 128 | 3,294 | 33 | 26 |
| 49,004 | (NA) | 2,741 | (NA) | 295,021 | (NA) | 8,876 | 66 | 1,334 | 10 | 27 |
| 11,386 | 2,322 | 2,264 | ¹² 2,959 | 53,801 | ¹² 4,938 | 465 | 191 | 230 | 113 | 28 |
| 9,827 | 2,504 | 1,953 | 3,328 | 41,261 | 3,861 | 347 | 158 | (NA) | (NA) | 29 |
| 5,554 | - | 736 | 2,195 | 27,145 | 1,912 | 410 | 211 | 124 | 64 | 30 |
| 1,405 | (NA) | 59 | (NA) | 8,707 | (NA) | 388 | 108 | 42 | 12 | 31 |
| 43,921 | 32,785 | 8,318 | ¹² 10,967 | 232,753 | ¹² 14,991 | 3,649 | 251 | 748 | 54 | 32 |
| 42,170 | 29,209 | 12,076 | 17,777 | 207,408 | 36,395 | 1,638 | 101 | (NA) | (NA) | 33 |
| 37,963 | 10,003 | 4,502 | 7,449 | 145,592 | 10,339 | 1,399 | 93 | 411 | 27 | 34 |
| 5,939 | (NA) | 44 | (NA) | 34,625 | (NA) | 701 | 37 | 146 | 8 | 35 |
| 171,790 | 138,635 | 37,079 | 47,735 | 914,680 | 79,964 | 6,818 | 160 | 2,063 | 49 | 36 |
| 163,456 | 122,885 | 22,946 | 51,493 | 892,384 | 76,339 | 6,922 | 115 | (NA) | (NA) | 37 |
| 150,663 | ⁶ 58,982 | 26,772 | 46,161 | 739,381 | 59,004 | 5,885 | 86 | 1,946 | 28 | 38 |
| 34,319 | (NA) | 2,400 | (NA) | 224,266 | (NA) | 5,662 | 55 | 934 | 9 | 39 |
| ¹¹ 12,941 | (¹¹) | ¹¹ 1,675 | ¹² 4,058 | 49,317 | ¹² 4,532 | 889 | 326 | 269 | 119 | 40 |
| 12,554 | 543 | 611 | 3,067 | 44,557 | 3,975 | 737 | 192 | (NA) | (NA) | 41 |
| 8,962 | ⁵ 218 | 890 | 3,066 | ⁵ 42,811 | 3,466 | 513 | 136 | 136 | 36 | 42 |
| 1,082 | (NA) | 7 | (NA) | 4,537 | (NA) | 176 | 98 | 26 | 15 | 43 |
| ¹¹ 8,632 | (¹¹) | ¹¹ 286 | ¹² 1,585 | 28,477 | ¹² 2,570 | 484 | 308 | 169 | 115 | 44 |
| ¹⁰ 6,052 | (¹⁰) | 160 | 1,480 | 20,341 | 1,850 | 282 | 209 | (NA) | (NA) | 45 |
| 3,431 | 4 | 168 | 1,298 | 14,184 | 1,946 | 288 | 210 | 86 | 63 | 46 |
| 1,010 | (NA) | 58 | (NA) | 3,457 | (NA) | 133 | 103 | 20 | 15 | 47 |
| 34,089 | 2,008 | 1,519 | 8,097 | 119,739 | 9,906 | 3,244 | 531 | 356 | 72 | 48 |
| ¹¹ 23,322 | ¹¹ 879 | ¹¹ 1,151 | 7,278 | 82,545 | 8,133 | 1,905 | 353 | (NA) | (NA) | 49 |
| 12,160 | 647 | 1,311 | 4,309 | 49,066 | 6,687 | 1,339 | 280 | 176 | 37 | 50 |
| 2,204 | (NA) | 130 | (NA) | 8,198 | (NA) | 770 | 210 | 49 | 13 | 51 |

TABLE 5. General Statistics by Geographic

| Geographic area and year | | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|---------------------------------------|----------------------------|------------------------|---------------------------|---------------|----------------------|--|----------------------|--------------------|------------------------|
| | | Total ¹ | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| DIVISION AND STATES—Continued | | | | | | | | | |
| South Atlantic:—Continued | | | | | | | | | |
| Incl. operations in manufactures—Con. | | | | | | | | | |
| Florida: | | | | | | | | | |
| 1 | 1963..... | 259 | 64 | 6,731 | 33,568 | 5,328 | 12,499 | 24,523 | 114,519 |
| 2 | 1958..... | 220 | 72 | 6,921 | 30,133 | 5,708 | 12,142 | 23,085 | 87,436 |
| 3 | 1954 ⁷ | 199 | 57 | 6,889 | 26,426 | 5,625 | 13,137 | 19,956 | ⁵ 68,702 |
| 4 | 1939 ⁸ | 86 | (NA) | 3,468 | 3,190 | 3,083 | 6,017 | 2,415 | 8,143 |
| East South Central: | | | | | | | | | |
| Mineral industries only: | | | | | | | | | |
| 5 | 1963..... | 3,309 | 563 | 48,829 | 239,683 | 42,869 | 80,663 | 200,999 | 746,996 |
| 6 | 1958..... | 3,215 | 575 | 62,083 | 263,721 | 54,294 | 93,251 | 220,315 | 651,249 |
| 7 | 1954..... | 3,073 | 581 | 66,628 | 240,006 | 60,615 | 104,304 | 206,919 | ⁵ 519,642 |
| Including operations in manufactures: | | | | | | | | | |
| 8 | 1963..... | 3,424 | 584 | 50,334 | 245,526 | 44,273 | 83,412 | 206,520 | 763,016 |
| 9 | 1958..... | 3,311 | 595 | 63,755 | 269,247 | 55,890 | 96,375 | 225,400 | 671,834 |
| 10 | 1954 ⁷ | 3,159 | 599 | 68,079 | 244,415 | 61,988 | 107,058 | 210,951 | ⁵ 531,679 |
| 11 | 1939 ⁸ | 1,423 | (NA) | 93,949 | 96,023 | 89,522 | 134,469 | 86,990 | 130,531 |
| Kentucky: | | | | | | | | | |
| 12 | 1963..... | 2,091 | 320 | 27,877 | 132,047 | 25,005 | 45,559 | 115,582 | 339,715 |
| 13 | 1958..... | 2,123 | 334 | 36,134 | 149,586 | 32,135 | 53,187 | 129,153 | 321,348 |
| 14 | 1954 ⁷ | 1,828 | 337 | 38,917 | 139,370 | 35,842 | 59,702 | 124,206 | 270,714 |
| 15 | 1939 ⁸ | 743 | (NA) | 53,839 | 56,971 | 51,452 | 73,891 | 52,338 | 77,169 |
| Tennessee: | | | | | | | | | |
| 16 | 1963..... | 528 | 94 | 7,542 | 34,708 | 6,626 | 13,433 | 29,312 | 94,701 |
| 17 | 1958..... | 562 | 106 | 9,692 | 35,585 | 8,411 | 15,571 | 29,411 | 76,001 |
| 18 | 1954 ⁷ | 692 | 112 | 10,181 | 32,037 | 9,416 | 17,412 | 28,044 | 65,241 |
| 19 | 1939 ⁸ | 266 | (NA) | 12,462 | 11,945 | 11,723 | 19,578 | 10,459 | 18,435 |
| Alabama: | | | | | | | | | |
| 20 | 1963..... | 416 | 98 | 9,537 | 48,529 | 8,556 | 16,150 | 41,306 | 126,658 |
| 21 | 1958..... | 357 | 91 | 12,583 | 57,389 | 11,174 | 18,745 | 47,742 | 138,254 |
| 22 | 1954 ⁷ | 413 | 98 | 15,136 | 57,317 | 13,602 | 23,526 | 46,947 | ⁵ 100,869 |
| 23 | 1939 ⁸ | 341 | (NA) | 26,953 | 26,449 | 25,758 | 39,827 | 23,764 | 33,849 |
| Mississippi: | | | | | | | | | |
| 24 | 1963..... | 389 | 72 | 5,378 | 30,242 | 4,086 | 8,270 | 20,320 | 201,942 |
| 25 | 1958..... | 269 | 64 | 5,346 | 26,687 | 4,170 | 8,872 | 19,094 | 136,231 |
| 26 | 1954 ⁷ | 226 | 52 | 3,845 | 15,691 | 3,128 | 6,418 | 11,754 | 94,855 |
| 27 | 1939 ⁸ | 73 | (NA) | 695 | 658 | 589 | 1,173 | 429 | 1,078 |
| West South Central: | | | | | | | | | |
| Mineral industries only: | | | | | | | | | |
| 28 | 1963..... | 12,127 | 1,745 | 196,365 | 1,271,111 | 135,900 | 287,706 | 768,333 | 7,801,797 |
| 29 | 1958..... | 10,055 | 1,896 | 225,747 | 1,230,869 | 151,662 | 320,153 | 719,543 | 6,156,371 |
| 30 | 1954 ¹⁶ | 9,179 | 1,906 | 233,679 | 1,044,616 | 165,208 | 358,039 | 688,469 | ⁵ 5,209,798 |
| Including operations in manufactures: | | | | | | | | | |
| 31 | 1963..... | 12,319 | 1,764 | 197,761 | 1,277,114 | 137,215 | 290,426 | 774,117 | 7,829,548 |
| 32 | 1958..... | 10,219 | 1,918 | 227,204 | 1,236,195 | 153,083 | 322,911 | 724,687 | 6,183,853 |
| 33 | 1954 ^{7 16} | 9,306 | 1,938 | 225,433 | 1,049,222 | 166,957 | 361,436 | 693,048 | ⁵ 5,226,592 |
| 34 | 1939 ⁸ | 6,252 | (NA) | 122,938 | 203,232 | 98,687 | 176,345 | 137,938 | 809,276 |
| Arkansas: | | | | | | | | | |
| 35 | 1963..... | 452 | 62 | 4,921 | 24,439 | 4,157 | 8,496 | 19,558 | 113,876 |
| 36 | 1958..... | 463 | 66 | 5,635 | 24,587 | 4,399 | 8,525 | 17,503 | 114,459 |
| 37 | 1954 ⁷ | 423 | 72 | 6,131 | 22,977 | 5,206 | 10,425 | 17,995 | ⁵ 110,107 |
| 38 | 1939 ⁸ | 307 | (NA) | 7,477 | 8,734 | 6,926 | 10,737 | 7,446 | 22,150 |
| Louisiana: | | | | | | | | | |
| 39 | 1963..... | 1,473 | 353 | 45,750 | 313,263 | 34,932 | 76,790 | 215,568 | 2,640,534 |
| 40 | 1958..... | 1,132 | 344 | 46,161 | 265,027 | 33,293 | 75,470 | 174,668 | 1,528,053 |
| 41 | 1954 ⁷ | 911 | 286 | 37,209 | 179,489 | 29,575 | 65,982 | 132,855 | 984,976 |
| 42 | 1939 ⁸ | 573 | (NA) | 14,475 | 24,375 | 12,244 | 22,496 | 18,351 | 92,879 |
| Oklahoma: | | | | | | | | | |
| 43 | 1963..... | 2,547 | 301 | 33,054 | 200,596 | 21,467 | 41,938 | 106,541 | 810,187 |
| 44 | 1958..... | 2,668 | 347 | 38,458 | 196,064 | 24,876 | 48,044 | 105,403 | 676,924 |
| 45 | 1954 ⁷ | 2,627 | 399 | 41,100 | 177,623 | 30,534 | 61,532 | 115,830 | ⁵ 586,635 |
| 46 | 1939 ⁸ | 1,687 | (NA) | 33,312 | 52,548 | 26,188 | 46,857 | 33,892 | 173,015 |
| Texas: | | | | | | | | | |
| 47 | 1963..... | 7,847 | 1,048 | 114,036 | 738,816 | 76,659 | 163,202 | 432,450 | 4,264,951 |
| 48 | 1958..... | 5,949 | 1,161 | 136,976 | 750,643 | 90,534 | 190,902 | 427,203 | 3,865,295 |
| 49 | 1954 ^{7 16} | 5,345 | 1,181 | 140,993 | 669,133 | 101,642 | 223,497 | 426,368 | 3,544,374 |
| 50 | 1939 ⁸ | 3,685 | (NA) | 67,674 | 117,575 | 53,329 | 96,255 | 78,249 | 521,232 |

See footnotes at end of table.

Area: 1963 and Earlier Years—Continued

| Selected expenses (\$1,000) | | | | Value of shipments and receipts ⁴ | Capital expenditures ³ | Energy used ³ (kwh. equivalent) | | Aggregate horsepower ³ | | |
|--|-----------------------------------|----------------------------|--|--|-----------------------------------|--|-----------------------|-----------------------------------|-----------------------|----|
| Supplies, purchases for resale, and purchased fuels and electric energy ² | Minerals received for preparation | Contract work ³ | Purchased machinery installed ³ | | | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp.) | | |
| 37,187 | 71,409 | 4,218 | 14,140 | 221,754 | 19,719 | 4,132 | 776 | 693 | 135 | 1 |
| ¹¹ 30,556 | ¹¹ 38,712 | ¹¹ 4,354 | ¹³ 9,573 | 158,950 | ¹³ 11,681 | 2,909 | 510 | (NA) | (NA) | 2 |
| 25,170 | ⁵ 32,291 | 4,953 | 11,071 | ⁵ 126,550 | 15,636 | 3,094 | 550 | 415 | 74 | 3 |
| 3,045 | (NA) | 43 | (NA) | 11,231 | (NA) | 1,046 | 339 | 117 | 38 | 4 |
| 188,971 | 134,563 | 79,867 | 73,743 | 1,103,667 | 120,473 | 13,911 | 325 | 3,015 | 70 | 5 |
| 181,075 | 130,558 | 64,692 | 55,421 | 983,325 | 99,670 | 12,104 | 223 | (NA) | (NA) | 6 |
| 130,228 | ⁵ 639,311 | 41,495 | 44,401 | ⁵ 706,066 | 69,011 | 9,853 | 163 | 1,973 | 33 | 7 |
| 193,762 | 135,010 | 79,871 | 74,381 | 1,124,847 | 121,193 | 13,929 | 315 | 3,015 | 70 | 8 |
| 184,937 | 130,748 | 64,695 | 55,564 | 1,007,944 | 99,834 | 12,128 | 217 | (NA) | (NA) | 9 |
| 133,168 | ⁵ 639,502 | 41,500 | 44,491 | 721,230 | 69,112 | 9,867 | 159 | 1,987 | 32 | 10 |
| 25,930 | (NA) | 2,020 | (NA) | 158,481 | (NA) | 5,742 | 64 | 737 | 8 | 11 |
| 86,450 | 105,122 | 20,775 | ¹² 45,293 | 544,686 | ¹² 52,669 | 4,614 | 185 | 1,512 | 61 | 12 |
| 88,650 | 75,908 | 24,617 | 28,063 | 493,635 | 44,951 | 4,143 | 129 | (NA) | (NA) | 13 |
| 67,651 | ⁶ 24,775 | 14,905 | 18,756 | 366,082 | 30,719 | 3,514 | 98 | 943 | 26 | 14 |
| 13,553 | (NA) | 1,084 | (NA) | 91,806 | (NA) | 2,322 | 45 | 332 | 6 | 15 |
| 31,049 | 5,081 | 7,094 | ¹² 8,458 | 133,201 | ¹² 13,160 | 2,617 | 395 | 455 | 76 | 16 |
| ¹⁰ 39,212 | (¹⁰) | 3,234 | 5,985 | 115,754 | 8,678 | 1,955 | 232 | (NA) | (NA) | 17 |
| 19,594 | 1,236 | 3,741 | 5,543 | 88,267 | 7,088 | 1,122 | 119 | 363 | 39 | 18 |
| 4,160 | (NA) | 89 | (NA) | 22,684 | (NA) | 1,421 | 121 | 137 | 12 | 19 |
| 40,660 | 6,319 | 11,471 | ¹² 9,126 | 178,599 | ¹² 15,575 | 1,464 | 171 | 530 | 67 | 20 |
| ¹⁰ 66,007 | (¹⁰) | 8,452 | 10,381 | 209,396 | 13,698 | 1,499 | 134 | (NA) | (NA) | 21 |
| 27,562 | ⁵ 13,023 | 3,768 | 8,920 | ⁵ 145,888 | 8,256 | 1,261 | 93 | 429 | 32 | 22 |
| 7,702 | (NA) | 301 | (NA) | 41,852 | (NA) | 1,815 | 70 | 254 | 10 | 23 |
| 35,603 | 18,488 | 40,531 | 10,866 | 268,361 | 39,069 | 5,234 | 1,281 | 518 | 130 | 24 |
| 30,502 | 15,406 | 28,392 | 11,135 | 189,159 | 32,507 | 4,531 | 1,087 | (NA) | (NA) | 25 |
| ⁶ 1018,829 | (¹⁰) | 19,086 | 11,272 | 120,993 | 23,049 | 3,970 | 1,269 | 252 | 81 | 26 |
| 515 | (NA) | 546 | (NA) | 2,139 | (NA) | 184 | 312 | 14 | 24 | 27 |
| 1,342,828 | 1,296,367 | 1,088,397 | 474,426 | 10,197,344 | 1,806,471 | 253,160 | 1,863 | 20,187 | 149 | 28 |
| 1,127,309 | 634,234 | 1,067,039 | 464,944 | 7,914,441 | 1,535,456 | 237,107 | 1,563 | (NA) | (NA) | 29 |
| 918,826 | ⁵ 6149,323 | 1,029,501 | 615,825 | ⁵ 6,397,677 | 1,525,548 | 217,257 | 1,315 | 13,836 | 84 | 30 |
| 1,349,343 | 1,296,431 | 1,088,423 | 474,472 | 10,231,693 | 1,806,524 | 253,170 | 1,845 | 20,187 | 149 | 31 |
| 1,132,188 | 634,354 | 1,067,075 | 464,958 | 7,946,924 | 1,535,504 | 237,109 | 1,549 | (NA) | (NA) | 32 |
| 922,678 | ⁵ 6149,323 | 1,029,511 | 615,875 | ⁵ 6,418,352 | 1,525,579 | 217,268 | 1,301 | 13,843 | 83 | 33 |
| 83,045 | (NA) | 122,948 | (NA) | 1,015,269 | (NA) | 106,337 | 1,078 | 3,231 | 33 | 34 |
| 27,648 | 14,621 | 13,438 | 7,911 | 160,166 | 17,328 | 3,806 | 916 | 402 | 101 | 35 |
| ¹⁷ 20,530 | ¹⁷ 3,456 | 11,094 | 7,816 | 141,084 | 16,271 | 3,752 | 853 | (NA) | (NA) | 36 |
| 20,386 | ⁵ 62,085 | 12,855 | 7,139 | ⁵ 138,879 | 13,690 | 3,793 | 729 | 359 | 69 | 37 |
| 4,040 | (NA) | 5,158 | (NA) | 31,348 | (NA) | 3,306 | 477 | 142 | 20 | 38 |
| ¹⁰ 921,837 | (¹⁰) | 418,538 | 173,412 | 3,417,634 | 736,687 | 61,798 | 1,769 | 4,115 | 118 | 39 |
| 338,885 | 112,644 | 349,184 | 144,851 | 1,903,526 | 570,091 | 47,946 | 1,440 | (NA) | (NA) | 40 |
| ⁶ 10231,042 | (¹⁰) | 260,574 | 150,157 | 1,195,573 | 431,176 | 43,447 | 1,469 | 2,354 | 80 | 41 |
| 14,288 | (NA) | 26,661 | (NA) | 133,828 | (NA) | 16,448 | 1,343 | 340 | 28 | 42 |
| ¹⁰ 253,076 | (¹⁰) | 127,960 | 58,164 | 1,044,388 | 204,999 | 28,822 | 1,343 | 3,033 | 142 | 43 |
| ¹⁷ 135,613 | ¹⁷ 50,538 | 126,847 | 60,422 | 864,106 | 186,238 | 31,638 | 1,272 | (NA) | (NA) | 44 |
| 123,700 | ⁵ 617,576 | 155,980 | 94,720 | ⁵ 758,124 | 220,478 | 31,302 | 1,025 | 2,301 | 75 | 45 |
| 21,909 | (NA) | 13,789 | (NA) | 208,713 | (NA) | 23,132 | 883 | 1,027 | 39 | 46 |
| 707,923 | 720,669 | 528,487 | 234,985 | 5,609,505 | 847,510 | 158,744 | 2,071 | 12,637 | 167 | 47 |
| ¹⁵ 639,413 | ¹⁵ 465,586 | 579,955 | 251,870 | 5,039,214 | 762,905 | 153,773 | 1,698 | (NA) | (NA) | 48 |
| ⁶ 10677,176 | (¹⁰) | 600,102 | 363,859 | 4,325,776 | 860,235 | 138,726 | 1,365 | 8,829 | 87 | 49 |
| 42,808 | (NA) | 77,340 | (NA) | 641,380 | (NA) | 63,451 | 1,190 | 1,722 | 32 | 50 |

TABLE 5. General Statistics by Geographic

| Geographic area and year | | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|---------------------------------------|-------------------------|------------------------|---------------------------|---------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | | Total ¹ | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| | | | | | | | | | |
| DIVISION AND STATES—Continued | | | | | | | | | |
| Mountain: | | | | | | | | | |
| Mineral industries only: | | | | | | | | | |
| 1 | 1963..... | 3,664 | 515 | 77,003 | 507,811 | 61,916 | 127,380 | 387,078 | 2,101,849 |
| 2 | 1958..... | 3,800 | 565 | 84,891 | 463,056 | 64,682 | 128,705 | 329,590 | 1,744,065 |
| 3 | 1954..... | 4,551 | 556 | 84,662 | 393,746 | 68,713 | 140,458 | 301,851 | ⁵ 1,305,463 |
| Including operations in manufactures: | | | | | | | | | |
| 4 | 1963..... | 3,812 | 522 | 78,098 | 513,397 | 62,992 | 129,532 | 392,581 | 2,129,755 |
| 5 | 1958..... | 3,913 | 573 | 85,739 | 466,922 | 65,525 | 130,364 | 333,441 | 1,768,609 |
| 6 | 1954 ⁷ | 4,612 | 561 | 85,066 | 395,178 | 69,114 | 141,253 | 303,275 | ⁵ 1,313,850 |
| 7 | 1939 ⁸ | 2,351 | (NA) | 74,096 | 111,751 | 66,711 | 129,846 | 93,717 | 283,834 |
| Montana: | | | | | | | | | |
| 8 | 1963..... | 427 | 40 | 7,592 | 47,222 | 6,134 | 12,608 | 35,510 | 112,084 |
| 9 | 1958..... | 453 | 39 | 8,490 | 44,295 | 5,866 | 11,073 | 28,038 | 116,993 |
| 10 | 1954 ⁷ | 583 | 56 | 11,605 | 51,764 | 8,936 | 17,478 | 36,979 | ⁵ 83,942 |
| 11 | 1939 ⁸ | 499 | (NA) | 11,599 | 17,722 | 10,291 | 19,862 | 14,701 | 34,865 |
| Idaho: | | | | | | | | | |
| 12 | 1963..... | 155 | 14 | 3,349 | 19,495 | 2,873 | 5,673 | 15,841 | 42,309 |
| 13 | 1958..... | 183 | 22 | 3,979 | 21,085 | 3,352 | 6,436 | 16,565 | 38,427 |
| 14 | 1954 ⁷ | 257 | 28 | 4,781 | 22,405 | 4,135 | 8,651 | 18,711 | ⁵ 38,692 |
| 15 | 1939 ⁸ | 116 | (NA) | 5,049 | 8,146 | 4,654 | 9,753 | 7,086 | 18,952 |
| Wyoming: | | | | | | | | | |
| 16 | 1963..... | 541 | 101 | 8,760 | 61,052 | 6,657 | 14,185 | 43,925 | 453,779 |
| 17 | 1958..... | 501 | 86 | 8,577 | 48,675 | 5,986 | 11,959 | 30,794 | 343,180 |
| 18 | 1954 ⁷ | 487 | 101 | 9,745 | 45,847 | 7,491 | 14,641 | 32,508 | ⁵ 258,503 |
| 19 | 1939 ⁸ | 188 | (NA) | 6,848 | 10,442 | 6,204 | 10,189 | 8,765 | 32,679 |
| Colorado: | | | | | | | | | |
| 20 | 1963..... | 897 | 84 | 11,374 | 73,638 | 8,565 | 16,549 | 49,167 | 257,310 |
| 21 | 1958..... | 992 | 132 | 14,273 | 76,923 | 10,014 | 19,340 | 48,166 | 255,896 |
| 22 | 1954 ⁷ | 1,043 | 118 | 13,690 | 59,999 | 10,977 | 21,317 | 44,381 | ⁵ 207,541 |
| 23 | 1939 ⁸ | 589 | (NA) | 14,800 | 19,823 | 13,469 | 23,356 | 16,845 | 41,875 |
| New Mexico: | | | | | | | | | |
| 24 | 1963..... | 881 | 151 | 17,779 | 115,290 | 13,912 | 28,247 | 86,056 | 653,223 |
| 25 | 1958..... | 770 | 142 | 17,552 | 97,493 | 13,609 | 28,197 | 70,355 | 534,146 |
| 26 | 1954 ⁷ | 693 | 119 | 13,934 | 65,784 | 11,545 | 23,599 | 51,274 | ⁵ 338,096 |
| 27 | 1939 ⁸ | 286 | (NA) | 8,921 | 12,720 | 8,065 | 14,817 | 10,605 | 44,683 |
| Arizona: | | | | | | | | | |
| 28 | 1963..... | 290 | 41 | 15,525 | 109,006 | 13,126 | 29,353 | 90,399 | 295,733 |
| 29 | 1958..... | 338 | 43 | 15,609 | 81,473 | 12,462 | 25,189 | 63,257 | 195,533 |
| 30 | 1954 ⁷ | 533 | 37 | 13,290 | 66,776 | 11,073 | 25,286 | 54,081 | 179,001 |
| 31 | 1939 ⁸ | 179 | (NA) | 10,389 | 17,066 | 9,400 | 22,059 | 14,561 | 40,560 |
| Utah: | | | | | | | | | |
| 32 | 1963..... | 405 | 72 | 10,832 | 69,538 | 9,238 | 17,589 | 56,400 | 270,662 |
| 33 | 1958..... | 468 | 79 | 14,100 | 80,290 | 11,684 | 23,013 | 63,238 | 250,132 |
| 34 | 1954 ⁷ | 562 | 59 | 12,685 | 56,807 | 10,298 | 19,903 | 43,447 | ⁵ 153,235 |
| 35 | 1939 ⁸ | 199 | (NA) | 10,832 | 16,614 | 9,529 | 18,466 | 13,274 | 51,550 |
| Nevada: | | | | | | | | | |
| 36 | 1963..... | 216 | 19 | 2,887 | 18,156 | 2,487 | 5,328 | 15,283 | 44,655 |
| 37 | 1958..... | 208 | 30 | 3,159 | 16,688 | 2,552 | 5,157 | 13,028 | 34,302 |
| 38 | 1954 ⁷ | 454 | 43 | 5,336 | 25,796 | 4,659 | 10,378 | 21,894 | ⁵ 54,795 |
| 39 | 1939 ⁸ | 295 | (NA) | 5,658 | 9,218 | 5,099 | 11,344 | 7,880 | 18,670 |
| Pacific: | | | | | | | | | |
| Mineral industries only: | | | | | | | | | |
| 40 | 1963..... | 2,370 | 330 | 38,398 | 279,044 | 28,877 | 57,805 | 197,092 | 1,353,316 |
| 41 | 1958..... | 2,235 | 326 | 38,444 | 238,198 | 27,233 | 55,644 | 149,939 | 1,278,654 |
| 42 | 1954..... | 2,962 | 376 | 45,505 | 233,802 | 34,571 | 69,708 | 163,902 | ⁵ 1,365,822 |
| Including operations in manufactures: | | | | | | | | | |
| 43 | 1963..... | 2,589 | 354 | 40,584 | 290,175 | 31,032 | 62,098 | 208,027 | 1,397,169 |
| 44 | 1958..... | 2,411 | 342 | 39,857 | 245,355 | 28,636 | 58,419 | 157,031 | 1,313,199 |
| 45 | 1954 ⁷ | 3,068 | 388 | 46,426 | 237,558 | 35,490 | 71,542 | 167,651 | ⁵ 1,383,504 |
| 46 | 1939 ⁸ | 2,354 | (NA) | 46,399 | 85,105 | 38,764 | 77,826 | 64,350 | 333,283 |
| Washington: | | | | | | | | | |
| 47 | 1963..... | 294 | 24 | 2,138 | 13,252 | 1,795 | 3,492 | 10,921 | 29,299 |
| 48 | 1958..... | 239 | 30 | 2,236 | 11,977 | 1,795 | 3,187 | 8,944 | 28,386 |
| 49 | 1954 ⁷ | 311 | 35 | 3,228 | 14,781 | 2,647 | 4,912 | 11,403 | ⁵ 25,182 |
| 50 | 1939 ⁸ | 177 | (NA) | 4,248 | 6,203 | 3,894 | 6,608 | 5,376 | 11,075 |

See footnotes at end of table.

Area: 1963 and Earlier Years—Continued

| Selected expenses (\$1,000) | | | | Value of shipments and receipts ⁴ | Capital expenditures ³ | Energy used ³ (kwh. equivalent) | | Aggregate horsepower ³ | | |
|--|-----------------------------------|----------------------------|--|--|-----------------------------------|--|-----------------------|-----------------------------------|-----------------------|----|
| Supplies, purchases for resale, and purchased fuels and electric energy ² | Minerals received for preparation | Contract work ³ | Purchased machinery installed ³ | | | Total | Per production worker | Total | Per production worker | |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp.) | | |
| 444,505 | 379,982 | 246,092 | 158,552 | 2,895,285 | 435,695 | 50,544 | 816 | 6,198 | 100 | 1 |
| ¹⁸ 436,054 | ¹⁸ 288,382 | 314,987 | 142,611 | 2,445,608 | 480,491 | 46,435 | 718 | (NA) | (NA) | 2 |
| 312,916 | ⁵ ⁶ 140,363 | 256,342 | 128,584 | ⁵ 1,768,451 | 364,677 | 38,360 | 558 | 4,710 | 69 | 3 |
| 449,247 | 379,990 | 246,100 | 158,599 | 2,927,947 | 435,744 | 50,548 | 802 | 6,198 | 100 | 4 |
| ¹⁸ 439,499 | ¹⁸ 288,382 | 314,993 | 142,656 | 2,473,597 | 480,542 | 46,437 | 709 | (NA) | (NA) | 5 |
| 314,283 | ⁵ ⁶ 140,363 | 256,353 | 128,606 | ⁵ 1,778,236 | 364,679 | 38,361 | 555 | 4,711 | 68 | 6 |
| 64,167 | (NA) | 13,242 | (NA) | 361,243 | (NA) | 18,846 | 282 | 1,472 | 22 | 7 |
| 35,962 | 37,421 | 29,596 | 42,304 | 190,707 | 66,660 | 2,909 | 474 | 537 | 88 | 8 |
| 29,822 | 33,014 | 17,631 | 7,466 | 181,501 | 23,425 | 2,879 | 491 | (NA) | (NA) | 9 |
| 26,150 | ⁵ ⁶ 35,711 | 24,074 | 10,554 | ⁵ 148,747 | 31,680 | 2,504 | 280 | 538 | 60 | 10 |
| 9,253 | (NA) | 583 | (NA) | 44,701 | (NA) | 1,237 | 120 | 230 | 22 | 11 |
| ¹⁰ 12,237 | (¹⁰) | 3,587 | 1,383 | 54,378 | 5,138 | 475 | 165 | 162 | 58 | 12 |
| 11,538 | 2,147 | 3,446 | 1,195 | 53,842 | 2,911 | 580 | 173 | (NA) | (NA) | 13 |
| 11,498 | ⁵ 2,672 | 1,787 | 3,256 | ⁵ 2,083 | 5,822 | 527 | 127 | 223 | 54 | 14 |
| 4,335 | (NA) | 102 | (NA) | 23,389 | (NA) | 233 | 50 | 83 | 18 | 15 |
| ¹⁰ 107,565 | (¹⁰) | 49,901 | 26,489 | 561,455 | 76,279 | 10,134 | 1,522 | 969 | 146 | 16 |
| 43,941 | 16,423 | 49,707 | 18,715 | 405,882 | 66,084 | 7,161 | 1,196 | (NA) | (NA) | 17 |
| 43,751 | ⁵ ⁶ 1,399 | 56,146 | 25,319 | ⁵ 313,659 | 71,475 | 9,546 | 1,274 | 682 | 91 | 18 |
| 3,016 | (NA) | 3,176 | (NA) | 38,871 | (NA) | 1,856 | 299 | 129 | 21 | 19 |
| 52,063 | 31,152 | 23,151 | 12,454 | 340,478 | 35,652 | 5,458 | 637 | 692 | 83 | 20 |
| 67,986 | 37,038 | 36,338 | 31,390 | 369,520 | 59,128 | 6,232 | 622 | (NA) | (NA) | 21 |
| 50,243 | ⁵ ⁶ 3,355 | 40,761 | 24,787 | ⁵ 262,214 | 56,479 | 4,873 | 444 | 702 | 64 | 22 |
| 9,815 | (NA) | 601 | (NA) | 52,291 | (NA) | 2,113 | 157 | 201 | 15 | 23 |
| 119,459 | 134,824 | 84,848 | ¹² 39,159 | 881,121 | ¹² 150,391 | 22,840 | 1,642 | 1,575 | 114 | 24 |
| 120,090 | 89,911 | 139,258 | 47,837 | 707,071 | 224,171 | 19,431 | 1,428 | (NA) | (NA) | 25 |
| 67,887 | ⁵ ⁶ 5,773 | 72,572 | 41,036 | ⁵ 403,274 | 121,656 | 12,384 | 1,073 | 825 | 71 | 26 |
| 6,955 | (NA) | 7,522 | (NA) | 59,160 | (NA) | 9,234 | 1,145 | 166 | 21 | 27 |
| 85,868 | 25,603 | 17,898 | ¹² 13,078 | 395,579 | ¹² 42,600 | 3,941 | 300 | 1,182 | 92 | 28 |
| 59,168 | 7,973 | 18,412 | ¹² 6,012 | 257,177 | ¹² 29,921 | ¹² 4,579 | 367 | (NA) | (NA) | 29 |
| 48,748 | ⁵ 1,078 | 30,428 | 9,154 | ⁵ 219,031 | 47,867 | 3,747 | 338 | 889 | 80 | 30 |
| 13,540 | (NA) | 130 | (NA) | 54,230 | (NA) | 2,372 | 252 | 282 | 30 | 31 |
| 53,001 | 100,836 | 35,120 | ¹² 20,813 | 427,147 | ¹² 53,285 | 3,823 | 414 | 748 | 82 | 32 |
| 75,790 | 101,876 | 47,246 | ¹² 22,368 | 432,288 | ¹² 65,124 | ¹² 4,722 | 404 | (NA) | (NA) | 33 |
| 39,679 | ⁵ 75,609 | 16,565 | 10,090 | ⁵ 275,157 | 19,438 | 3,851 | 374 | 498 | 48 | 34 |
| 11,225 | (NA) | 262 | (NA) | 63,037 | (NA) | 1,346 | 141 | 275 | 29 | 35 |
| ¹⁰ 33,246 | (¹⁰) | 1,999 | ¹² 2,879 | 77,082 | ¹² 5,697 | 968 | 389 | 334 | 143 | 36 |
| ¹⁰ 31,172 | (¹⁰) | 2,949 | 7,644 | 66,318 | 9,749 | 853 | 334 | (NA) | (NA) | 37 |
| 26,327 | ⁵ 14,766 | 14,020 | 4,410 | ⁵ 104,071 | 10,262 | 929 | 199 | 354 | 76 | 38 |
| 6,028 | (NA) | 866 | (NA) | 25,564 | (NA) | 455 | 89 | 106 | 21 | 39 |
| 232,631 | 150,414 | 167,669 | 64,173 | 1,699,304 | 268,899 | 38,528 | 1,334 | 4,186 | 145 | 40 |
| ¹⁹ 181,076 | ¹⁹ 108,676 | 116,570 | 50,099 | 1,597,051 | 178,024 | 37,822 | 1,389 | (NA) | (NA) | 41 |
| 181,030 | ⁵ ⁶ 29,371 | 146,476 | 76,296 | ⁵ 1,565,884 | 233,161 | 39,874 | 1,153 | 3,910 | 113 | 42 |
| 243,546 | 150,615 | 167,673 | 64,216 | 1,754,249 | 268,970 | 38,543 | 1,242 | 4,186 | 145 | 43 |
| ¹⁹ 188,282 | ¹⁹ 108,677 | 116,624 | 50,149 | 1,598,856 | 178,075 | 37,829 | 1,321 | (NA) | (NA) | 44 |
| 185,065 | ⁵ ⁶ 29,372 | 146,487 | 76,321 | ⁵ 1,587,587 | 233,212 | 39,876 | 1,124 | 3,912 | 115 | 45 |
| 46,357 | (NA) | 20,782 | (NA) | 400,422 | (NA) | 29,396 | 758 | 1,484 | 38 | 46 |
| 9,505 | 232 | 2,953 | 2,499 | 40,351 | 4,137 | 368 | 205 | 178 | 115 | 47 |
| ¹⁰ 10,095 | (¹⁰) | 1,974 | 1,583 | 39,220 | 2,818 | 481 | 268 | (NA) | (NA) | 48 |
| 8,307 | ⁵ 214 | 1,740 | 2,387 | ⁵ 34,998 | 2,857 | 404 | 153 | 400 | 151 | 49 |
| 2,554 | (NA) | 65 | (NA) | 13,694 | (NA) | 251 | 64 | 78 | 20 | 50 |

TABLE 5. General Statistics by Geographic

| | Geographic area and year | Establishments, number | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|----|---------------------------------------|------------------------|---------------------------|---------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | | Total ¹ | With 20 or more employees | Number | Payroll (\$1,000) | Number | Man-hours (1,000) | Wages (\$1,000) | |
| | DIVISION AND STATES—Continued | | | | | | | | |
| | Pacific:—Continued | | | | | | | | |
| | Incl. operations in manufactures—Con. | | | | | | | | |
| | Oregon: | | | | | | | | |
| 1 | 1963..... | 231 | 22 | 2,072 | 11,842 | 1,705 | 3,298 | 9,427 | 21,310 |
| 2 | 1958..... | 230 | 15 | 1,367 | 6,921 | 1,138 | 2,270 | 5,622 | 18,633 |
| 3 | 1954 ⁷ | 296 | 13 | 1,487 | 6,546 | 1,331 | 2,690 | 5,718 | 13,168 |
| 4 | 1939 ⁸ | 128 | (NA) | 1,476 | 1,955 | 1,309 | 2,672 | 1,627 | 3,807 |
| | California: | | | | | | | | |
| 5 | 1963..... | 1,874 | 286 | 34,679 | 251,125 | 26,055 | 52,215 | 176,243 | 1,287,964 |
| 6 | 1958..... | 1,758 | 280 | 34,821 | 216,995 | 24,496 | 50,122 | 135,218 | 1,252,079 |
| 7 | 1954 ⁷ | 2,254 | 324 | 40,104 | 206,104 | 30,159 | 60,630 | 142,350 | ⁵ 1,329,505 |
| 8 | 1939 ⁸ | 2,049 | (NA) | 40,675 | 76,947 | 33,561 | 68,546 | 57,347 | 318,401 |
| | Alaska: | | | | | | | | |
| 9 | 1963..... | 141 | 18 | 1,356 | 12,198 | 1,165 | 2,486 | 9,885 | 52,919 |
| 10 | 1958..... | 160 | 9 | 988 | 7,642 | 816 | 2,047 | 5,725 | 9,214 |
| 11 | 1954 ⁷ | 194 | 14 | 1,436 | 9,529 | 1,197 | 2,990 | 7,663 | 14,383 |
| | Hawaii: | | | | | | | | |
| 12 | 1963..... | 49 | 4 | 339 | 1,758 | 312 | 607 | 1,551 | 5,677 |
| 13 | 1958..... | 24 | 8 | 445 | 1,820 | 391 | 793 | 1,522 | 4,887 |
| 14 | 1954 ⁷ | 13 | 2 | 171 | 598 | 156 | 320 | 517 | 1,266 |

Note: For explanation of column captions, see Introduction.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For 1939, represents the number of mines and quarries, number of natural gas liquids plants, number of crude petroleum and natural gas establishments, and for mining services industries, number of operating companies.

²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

³For 1963, 1958, and 1954, excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments. For horsepower in 1963, also excludes data for dimension stone in manufactures.

⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, and 1954, represents gross value of shipments and receipts and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For 1939, represents net production and receipts and excludes this duplication. For 1954 and 1939, excludes the value of residue gas from natural gas liquids plants.

⁵Excludes data for the Uranium-Radium-Vanadium Ores Industry.

⁶Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of liquids contained in such gas.

⁷Excludes data for sand and gravel mining operations in manufacturing establishments.

⁸Except for value of shipments and value added excludes data for dimension stone dressing plants operated in conjunction with quarries. For the United States, the value added in dressing stone at such operations was \$7,913 thousand; this value has been included in the value of shipments and value added in mining.

Area: 1963 and Earlier Years—Continued

| Selected expenses (\$1,000) | | | | Value of shipments and receipts ⁴ | Capital expenditures ³ | Energy used ³ (kwh. equivalent) | | Aggregate horsepower ³ | |
|--|-----------------------------------|----------------------------|--|--|-----------------------------------|--|-----------------------|-----------------------------------|-----------------------|
| Supplies, purchases for resale, and purchased fuels and electric energy ² | Minerals received for preparation | Contract work ³ | Purchased machinery installed ³ | | | Total | Per production worker | Total | Per production worker |
| | | | | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp.) | |
| 7,886 | 276 | 2,350 | 2,502 | 29,907 | 4,417 | 414 | 243 | 183 | 116 |
| 6,173 | 166 | 3,083 | 1,632 | 23,085 | 6,602 | 345 | 303 | (NA) | (NA) |
| 4,681 | 66 | 1,899 | 2,761 | 18,872 | 3,703 | 349 | 262 | 141 | 106 |
| 1,298 | (NA) | 15 | (NA) | 5,120 | (NA) | 143 | 109 | 33 | 25 |
| 213,219 | 150,107 | 132,049 | 56,399 | 1,613,743 | 225,995 | 37,074 | 1,423 | 3,572 | 147 |
| 166,833 | 107,511 | 104,319 | 44,592 | 1,512,998 | 162,336 | 36,287 | 1,481 | (NA) | (NA) |
| 166,838 | ⁵ 28,971 | 141,067 | 67,642 | ⁵ 1,512,186 | 221,862 | 38,427 | 1,274 | 3,205 | 106 |
| 42,505 | (NA) | 20,702 | (NA) | 381,608 | (NA) | 29,002 | 864 | 1,373 | 41 |
| 11,128 | - | 30,144 | 2,496 | 62,786 | 33,901 | 644 | 553 | 209 | 185 |
| 4,453 | 500 | 7,120 | 1,674 | 17,346 | 5,615 | 652 | 799 | (NA) | (NA) |
| 4,890 | 121 | 1,651 | 3,305 | 19,753 | 4,597 | 677 | 566 | 151 | 126 |
| 1,808 | - | 177 | 320 | 7,462 | 520 | 43 | 138 | 44 | 153 |
| 1,228 | - | 128 | 668 | 6,207 | 704 | 64 | 164 | (NA) | (NA) |
| 349 | - | 130 | 226 | 1,778 | 193 | 19 | 122 | 15 | 96 |

⁹Excludes figures for Alaska and Hawaii.

¹⁰The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹For dimension stone operations in manufactures, the cost of minerals received for preparation and contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for dimension stone operations in manufactures.

¹³For Middle Atlantic, excludes data for dimension stone operations in manufactures in New Jersey; for the East North Central, excludes data for dimension stone operations in manufactures in Michigan. For the West North Central, excludes data for dimension stone operations in manufactures in Iowa and Nebraska. For the South Atlantic, excludes data for dimension stone operations in manufactures in Florida.

¹⁴Figures for dimension stone establishments in manufactures in Illinois are included with those for Michigan; and for Iowa are included with those for South Dakota.

¹⁵The cost of minerals received for preparation in South Carolina and Texas are included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁶Includes data for elemental sulfur establishments which are included in the manufacturing industries for other years and are excluded from the United States totals for 1954.

¹⁷The cost of minerals received for preparation in the Metal Mining Industries is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁸The cost of minerals received for preparation in Nevada are included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁹The cost of minerals received for preparation in the Metal Mining and Nonmetallic Mineral Mining Industries in Washington is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 6. Industry Shipments and Receipts and Net Shipments of Primary Products: 1963

(In thousands of dollars)

| Ind. code | Industry or subindustry | Shipments and receipts of establishments classified in the industry | | | | | Net shipments of primary products or services | | |
|-----------|---|---|------------------|--------------------|---------------------------------|--|---|--|---|
| | | Total | Primary products | Secondary products | Receipts for secondary services | Products purchased and resold without further processing | Total (produced or performed in all industries) | Produced or performed in this industry | Produced or performed in other industries |
| 10 | Metal mining: | | | | | | | | |
| 1011 | Iron ores..... | 762,234 | (D) | (D) | 1,234 | (D) | 706,468 | (D) | (D) |
| 1021 | Copper ores..... | 670,173 | 648,056 | (D) | (D) | - | 532,233 | 522,104 | 10,129 |
| 1031 | Lead and zinc ores..... | 135,965 | 125,661 | 9,872 | 229 | 203 | 110,720 | 109,684 | 1,036 |
| | Lead ores subindustry..... | 50,743 | 42,230 | 8,370 | (D) | (D) | 45,981 | (D) | (D) |
| | Zinc ores subindustry..... | 85,222 | 67,241 | 17,692 | (D) | (D) | 64,739 | (D) | (D) |
| 104 | Gold and silver ores: | | | | | | | | |
| 1042 | Lode gold..... | 26,632 | 26,325 | 307 | - | - | 26,970 | 26,325 | 645 |
| 1043 | Placer gold..... | 7,532 | 6,791 | (D) | (D) | - | 6,791 | 6,791 | - |
| 1044 | Silver ores..... | 26,060 | 23,678 | 2,382 | - | - | 25,964 | 23,678 | 2,286 |
| 1051 | Bauxite..... | 21,491 | (D) | (D) | - | - | 20,478 | 20,478 | - |
| 106 | Ferroalloy ores: | | | | | | | | |
| 1062 | Manganese ores..... | 7,288 | (D) | (D) | (D) | - | 32,776 | (D) | (D) |
| 1064 | Tungsten ores..... | 83,476 | (D) | (D) | - | - | 100,462 | (D) | (D) |
| 1069 | Ferroalloy ores, n.e.c..... | | | | | | | | |
| 1081 | Metal mining services..... | 32,360 | 30,989 | (D) | (D) | 3 | 31,082 | 30,989 | 93 |
| 109 | Miscellaneous metal ores: | | | | | | | | |
| 1092 | Mercury ores..... | 3,658 | 3,632 | - | 26 | - | 13,592 | 13,592 | - |
| 1093 | Titanium ores..... | 22,033 | (D) | (D) | - | - | 216,836 | (D) | (D) |
| 1094 | Uranium-radium-vanadium ores..... | 326,370 | 318,140 | (D) | (D) | (D) | 236,504 | 236,504 | - |
| 1099 | Metallic ores, n.e.c..... | 3,034 | (D) | (D) | (D) | (D) | 4,532 | (D) | (D) |
| 11 | Anthracite mining: | | | | | | | | |
| 1111 | Anthracite..... | 220,973 | 219,914 | (D) | (D) | 432 | 155,899 | 155,899 | - |
| 1112 | Anthracite mining services..... | 15,538 | 15,538 | - | - | - | 15,625 | 15,538 | 87 |
| 12 | Bituminous coal and lignite mining: | | | | | | | | |
| 1211 | Bituminous coal..... | 2,358,326 | 2,342,815 | 2,303 | 1,816 | 11,392 | 2,059,734 | 2,059,046 | 688 |
| 1212 | Lignite..... | 14,112 | 13,771 | (D) | (D) | - | 13,640 | 13,640 | - |
| 1213 | Bituminous coal and lignite mining services..... | 23,981 | 23,035 | - | 540 | 406 | 23,220 | 23,035 | 185 |
| 13 | Oil and gas extraction: | | | | | | | | |
| 1311 | Crude petroleum and natural gas..... | 9,893,763 | 9,831,916 | - | 46,695 | 15,152 | 9,882,493 | 9,831,916 | 50,577 |
| | Crude petroleum subindustry..... | 8,600,086 | 7,377,201 | 1,170,112 | 42,406 | 10,367 | 7,713,747 | 7,377,201 | 336,546 |
| | Natural gas subindustry..... | 1,293,677 | 990,123 | 294,480 | 4,289 | 4,785 | 2,168,746 | 990,123 | 1,178,623 |
| 1321 | Natural gas liquids..... | 2,800,802 | 2,791,175 | 4,302 | 5,325 | - | 808,479 | 808,479 | - |
| 138 | Oil and gas field services: | | | | | | | | |
| 1381 | Drilling oil and gas wells..... | 979,316 | 906,107 | 45,767 | 22,672 | 4,770 | 951,474 | 906,107 | 45,367 |
| 1382 | Oil and gas exploration services..... | 119,824 | 107,589 | 73 | 4,042 | 8,120 | 112,135 | 107,589 | 4,546 |
| 1389 | Oil and gas field services, n.e.c..... | 718,754 | 623,996 | 4,737 | 21,326 | 68,695 | 666,096 | 623,996 | 42,100 |
| | Survey, log, cement services subindustry.. | 245,335 | 168,355 | 46 | 27,413 | 49,521 | 205,854 | 168,355 | 37,499 |
| | Miscellaneous oil and gas field services subindustry..... | 473,419 | 393,163 | 4,691 | 56,391 | 19,174 | 460,242 | 393,163 | 67,079 |
| 14 | Nonmetallic minerals mining: | | | | | | | | |
| 1411 | Dimension stone..... | 19,735 | 18,525 | 656 | 32 | 522 | 25,630 | 18,525 | 7,105 |
| | Dimension limestone subindustry..... | 3,513 | 3,266 | 16 | - | 231 | 6,275 | 3,266 | 3,009 |
| | Dimension granite subindustry..... | 9,428 | 8,779 | 416 | - | 233 | 9,815 | 8,779 | 1,036 |
| | Dimension stone, n.e.c., subindustry..... | 6,794 | 6,475 | 229 | 32 | 58 | 9,540 | 6,475 | 3,065 |
| 1421 | Crushed and broken stone..... | 794,860 | 748,244 | 28,443 | 8,083 | 10,090 | 3905,195 | 739,193 | 3166,002 |
| | Crushed and broken limestone subindustry.... | 542,886 | 510,350 | 18,673 | 6,038 | 7,825 | 3648,803 | 503,289 | 3145,514 |
| | Crushed and broken granite subindustry..... | 89,749 | 85,227 | 3,501 | 921 | 100 | 386,103 | 85,140 | 3963 |
| | Crushed and broken stone, n.e.c., subindustry | 162,225 | 151,106 | 7,830 | 1,124 | 2,165 | 3170,289 | 149,203 | 321,086 |
| 1441 | Sand and gravel..... | 678,068 | 650,025 | 16,745 | 3,617 | 7,681 | 3731,104 | 646,204 | 384,900 |
| | Construction sand and gravel subindustry.... | 607,539 | 578,059 | 18,490 | 3,617 | 7,373 | 3660,953 | 574,978 | 385,975 |
| | Glass sand subindustry..... | 29,099 | 21,180 | 7,705 | - | 214 | 27,078 | 21,048 | 6,030 |
| | Molding sand subindustry..... | 16,642 | 14,052 | 2,564 | - | 26 | 20,687 | 13,751 | 6,936 |
| | Industrial sand, n.e.c., subindustry..... | 24,788 | 15,274 | 9,446 | - | 68 | 22,386 | 14,967 | 7,419 |
| 145 | Clay and related minerals: | | | | | | | | |
| 1452 | Bentonite..... | 18,105 | 16,908 | (D) | - | (D) | (D) | 417,217 | (D) |
| 1453 | Fire clay..... | 17,105 | 16,358 | (D) | (n) | 138 | 340,489 | 16,289 | 324,200 |
| 1454 | Fuller's earth..... | 12,954 | 10,094 | (D) | - | (D) | 10,094 | 10,094 | - |
| 1455 | Kaolin and ball clay..... | 66,077 | 65,157 | (D) | - | (D) | 67,286 | (D) | (D) |
| 1456 | Feldspar..... | 8,459 | 7,654 | 805 | - | - | 8,203 | 7,624 | 579 |
| 1459 | Clay and related minerals, n.e.c..... | 38,944 | 37,505 | 1,252 | (D) | (D) | 375,356 | 37,481 | 337,875 |

See footnotes at end of table.

TABLE 6. Industry Shipments and Receipts and Net Shipments of Primary Products: 1963—Continued

(In thousands of dollars)

| Ind. code | Industry or subindustry | Shipments and receipts of establishments classified in the industry | | | | | Net shipments of primary products or services | | |
|-----------|--|---|------------------|--------------------|---------------------------------|--|---|--|---|
| | | Total | Primary products | Secondary products | Receipts for secondary services | Products purchased and resold without further processing | Total (produced or performed in all industries) | Produced or performed in this industry | Produced or performed in other industries |
| | Nonmetallic Minerals Mining—Continued | | | | | | | | |
| 147 | Chemical and fertilizer minerals: | | | | | | | | |
| 1472 | Barite..... | 16,668 | (D) | (D) | (D) | (D) | 32,034 | 16,392 | 15,642 |
| 1473 | Fluorspar..... | 15,792 | 13,340 | 2,090 | 249 | 113 | 10,038 | 10,001 | 37 |
| 1474 | Potash, soda, and borate minerals..... | 192,116 | (D) | (D) | - | (D) | 186,524 | 186,524 | - |
| 1475 | Phosphate rock..... | 161,658 | 161,658 | - | - | - | 130,295 | 130,295 | - |
| 1476 | Rock salt..... | 59,297 | 54,798 | (D) | - | (D) | 58,207 | (D) | (D) |
| 1477 | Sulfur..... | 113,103 | 113,091 | 12 | - | - | 113,091 | 113,091 | - |
| 1479 | Chemical-fertilizer mining, n.e.c..... | 18,270 | 11,213 | (D) | - | (D) | 13,229 | 10,689 | 2,540 |
| 1481 | Nonmetallic minerals services..... | 13,246 | 12,751 | - | 493 | 2 | 13,134 | 12,751 | 383 |
| 149 | Miscellaneous minerals, n.e.c..... | 102,446 | 100,869 | 1,404 | 133 | 40 | 134,937 | 100,314 | 34,623 |
| 1492 | Gypsum..... | 10,160 | 9,629 | (D) | (D) | - | 38,345 | 9,629 | 38,716 |
| 1493 | Mica..... | 5,560 | (D) | (D) | 9 | 11 | 8,885 | 4,993 | 3,892 |
| 1494 | Native asphalt and bitumens..... | 8,509 | (D) | (D) | - | (D) | 8,799 | (D) | (D) |
| 1495 | Pumice and pumicite..... | 5,358 | (D) | (D) | - | 20 | 5,460 | (D) | (D) |
| 1496 | Talc, soapstone, and pyrophyllite..... | 17,534 | 16,857 | 566 | 111 | - | 16,833 | 16,595 | 238 |
| 1497 | Natural abrasives, except sand..... | 5,002 | 5,001 | - | - | 1 | 5,001 | 5,001 | - |
| 1498 | Peat..... | 7,360 | (D) | - | (D) | - | 7,374 | (D) | (D) |
| 1499 | Nonmetallic minerals, n.e.c..... | 42,963 | 42,955 | (D) | (D) | (D) | 44,240 | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.

(X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of mercury metal.²Represents gross shipments of titanium concentrates.³Includes the estimated value of minerals produced and used in the same manufacturing establishment in making manufactured products.⁴Includes bentonite produced in other industries, amounting to less than two percent of the total shown.⁵Represents gross shipments from other industries, principally material processed in the manufacturing industries.

TABLE 7. 1963 Bureau of the Census and Bureau of Mines Statistics Compared

| Product | Unit of measure | Bureau of the Census statistics | | | Bureau of Mines statistics | | |
|--|---|---------------------------------|--|--|-------------------------------------|--|--------------------------|
| | | Production | Shipments, including interplant transfers | | Production ¹ | Shipments ¹ | |
| | | | Quantity | Value (\$1,000) | | Quantity | Value (\$1,000) |
| METAL ORES AND CONCENTRATES | | | | | | | |
| Iron ore, except manganese iron ore: | | | | | | | |
| Crude iron ore..... | 1,000 long tons... | ² 152,504 | ² 41,058 | 134,300 | 152,776 | (NA) | (NA) |
| Net production and shipments..... | ...do..... | ² 73,778 | ³ 74,119 | ³ 703,715 | 72,841 | 73,564 | 678,181 |
| Manganese iron ore: | | | | | | | |
| Net production and shipments..... | ...do..... | (²) | 418 | 2,753 | (NA) | ⁴ 500 | (NA) |
| Copper, lead, zinc, gold, and silver ores: | | | | | | | |
| Production and net shipments..... | 1,000 short tons.. | ⁵ 162,896 | 4,200 | 20,321 | 165,944 | (NA) | (NA) |
| Metal content of copper, lead, zinc, gold, and silver-bearing materials: ⁶ | | | | | | | |
| Copper..... | 1,000 pounds..... | 2,441,016 | (NA) | (NA) | 2,426,332 | (NA) | ⁷ 747,310 |
| Lead..... | ...do..... | 522,146 | (NA) | (NA) | 506,738 | (NA) | ⁷ 54,727 |
| Zinc..... | ...do..... | 1,179,680 | (NA) | (NA) | 1,058,508 | (NA) | ⁷ 122,533 |
| Gold..... | 1,000 fine ounces. | 1,437 | (NA) | (NA) | 1,454 | (NA) | ⁷ 50,889 |
| Silver..... | ...do..... | 34,583 | (NA) | (NA) | 35,243 | (NA) | ⁷ 45,076 |
| Copper ores: | | | | | | | |
| Crude ore mined in the Copper Ores Industry (production and net shipments)..... | Production: 1,000 short tons of ores or concentrates | { 145,312 4,257 } | copper- 2,170,200 | { 13,307 468,311 } | ⁸ 146,450 2,041,192 | copper- ⁸ 2,178,499 | { (NA) (NA) } |
| Copper concentrates..... | | | | | | | |
| Copper precipitates (metal content)..... | | (NA) | 251,018 | 50,615 | (NA) | 195,946 | (NA) |
| Lead and zinc ores: | | | | | | | |
| Crude ore mined in the Lead and Zinc Ores Industry (production and net shipments)..... | Shipments: 1,000 pounds of metal contained.. | { 14,154 329 } | lead - 464,445 zinc - 1,173,693 | { 5,353 43,259 62,108 } | ⁹ 16,225 (NA) (NA) | lead - ⁹ 487,176 zinc - ⁹ 1,002,212 | { (NA) (NA) (NA) } |
| Lead concentrates..... | | | | | | | |
| Zinc concentrates..... | | 882 | | | | | |
| Lode gold: | | | | | | | |
| Crude ore mined in the Lode Gold Industry (production and net shipments)..... | Production: 1,000 short tons of ores or concentrates. | { 2,514 30 } | gold- 101.5 | { 315 3,722 } | ¹⁰ 2,682 (NA) | gold- ¹¹ 87.7 | { (NA) (NA) } |
| Gold concentrates..... | | | | | | | |
| Mill bullion..... | Shipments: 1,000 fine ounces of metal contained | (NA) | 652.9 | 22,933 | (NA) | ¹² 655.5 | (NA) |
| Placer gold..... | 1,000 fine ounces. | 193.7 | 193.7 | 6,791 | 185 | (NA) | ⁷ 6,452 |
| Silver ores: | | | | | | | |
| Crude ore mined in the Silver Ores Industry (production and net shipments)..... | Production: 1,000 short tons of ores or concentrates | { 916 1464 } | silver- 16,211 | { 1,346 24,598 } | ¹³ 587 (NA) | silver- ¹⁵ 11,050 | { (NA) (NA) } |
| Silver concentrates and mill bullion..... | | | | | | | |
| Bauxite: | | | | | | | |
| Crude bauxite..... | 1,000 long tons... | 1,863 | (D) | (D) | 1,831 | (NA) | (NA) |
| Net shipments..... | ...do..... | (X) | ¹⁶ 1,789 | ¹⁶ 20,478 | (X) | 1,779 | 18,290 |
| Manganese ores..... | ...do..... | ¹⁷ 55 | ¹⁸ 89 | ¹⁸ 6,752 | (NA) | ¹⁹ 48 | (NA) |
| Mercury ores: | | | | | | | |
| Crude mercury ores..... | 1,000 short tons.. | 119 | (D) | (D) | ²⁰ 114 | (NA) | (NA) |
| Mercury metal..... | Flasks (76 pounds) | 19,188 | 18,838 | 3,613 | 19,117 | (NA) | ²¹ 3,623 |
| Titanium ores: | | | | | | | |
| Crude titanium ores..... | 1,000 short tons.. | 25,720 | - | - | (NA) | (NA) | (NA) |
| Titanium concentrates..... | ...do..... | 901 | 902 | 16,836 | 900 | 901 | 17,791 |
| Uranium-radium-vanadium ores: | | | | | | | |
| Crude uranium-vanadium ores..... | ...do..... | 6,383 | 2,806 | 77,048 | ²² 5,646 | (NA) | ²² 115,821 |
| Uranium-vanadium concentrates..... | ...do..... | ²³ 110 | ²³ 107 | ²³ 241,092 | ²⁴ 18 | (NA) | ²⁴ 238,788 |
| Zirconium concentrates..... | Short tons..... | 78,279 | 78,810 | 3,465 | (NA) | (NA) | 5,742 |
| Antimony, beryllium, germanium, bastnaesite, monazite, and thorium concentrates and platinum group metals..... | | (X) | (X) | 1,694 | (X) | (X) | |
| COAL | | | | | | | |
| Anthracite: | | | | | | | |
| Net production and shipments..... | 1,000 short tons.. | 18,388 | { ¹⁶ 18,638 ²⁵ 18,353 } | { ¹⁶ 155,995 ²⁵ 155,899 } | 18,267 | 18,106 | 153,013 |
| Bituminous coal: | | | | | | | |
| Net production and shipments..... | ...do..... | 459,200 | ²⁵ 459,502 | ²⁵ 2,059,734 | 456,223 | (NA) | ²¹ 2,007,627 |
| Lignite: | | | | | | | |
| Net production and shipments..... | ...do..... | 4,989 | ²⁵ 4,984 | ²⁵ 13,640 | 2,705 | (X) | ²¹ 5,884 |

See footnotes at end of table.

**TABLE 7. 1963 Bureau of the Census and Bureau of Mines Statistics
Compared—Continued**

| Product | Unit of measure | Bureau of the Census statistics | | | Bureau of Mines statistics | | |
|--|--------------------|---------------------------------|---|----------------------|----------------------------|-------------------------|--------------------------|
| | | Production | Shipments, including interplant transfers | | Production ¹ | Shipments ¹ | |
| | | | Quantity | Value | | Quantity | Value |
| | | (Quantity) | | (\$1,000) | (Quantity) | | (\$1,000) |
| <u>OIL AND GAS</u> | | | | | | | |
| Crude petroleum, including field condensate and drips..... | 1,000 barrels..... | ²⁶² 7,703,520 | 2,701,978 | 7,713,747 | 2,752,723 | (NA) | ²¹⁷ 9,965,743 |
| Natural gas..... | Million cu. ft.... | 15,956,981 | 13,840,467 | 2,168,746 | 16,973,368 | ²⁷¹⁴ 746,663 | ²⁷² 2,328,030 |
| Natural gas liquids: | | | | | | | |
| Net production and net shipments..... | 1,000 barrels..... | 398,892 | 398,272 | 798,852 | 400,886 | 398,363 | ²¹ 798,943 |
| <u>NONMETALLIC MINERALS, EXCEPT FUELS¹</u> | | | | | | | |
| Dimension stone, total..... | 1,000 short tons.. | (NA) | 3,484 | 91,649 | (NA) | 2,616 | 96,318 |
| Rough (net)..... | ..do..... | (NA) | 2,227 | 22,142 | (NA) | ²⁸¹ 1,377 | ²⁸ 20,159 |
| Dressed..... | ..do..... | (NA) | 1,257 | 69,507 | (NA) | ²⁸¹ 1,239 | ²⁸ 76,159 |
| Limestone, total..... | ..do..... | (NA) | 1,531 | 19,890 | (NA) | 895 | 18,134 |
| Rough (net)..... | ..do..... | (NA) | 1,075 | 5,906 | (NA) | 530 | 4,484 |
| Dressed..... | ..do..... | (NA) | 456 | 13,984 | (NA) | 365 | 13,650 |
| Granite, total..... | ..do..... | (NA) | 923 | 35,636 | (NA) | 753 | 32,796 |
| Rough (net)..... | ..do..... | (NA) | 489 | 8,239 | (NA) | 461 | 10,858 |
| Dressed..... | ..do..... | (NA) | 434 | 27,397 | (NA) | 292 | 21,938 |
| Stone, n.e.c., total..... | ..do..... | (NA) | 1,030 | 36,123 | (NA) | 968 | 45,388 |
| Rough (net)..... | ..do..... | (NA) | 663 | 7,997 | (NA) | ²⁸ 386 | ²⁸⁴ 8,177 |
| Dressed..... | ..do..... | (NA) | 367 | 28,126 | (NA) | ²⁸ 582 | ²⁸⁴⁰ 5,771 |
| Crushed and broken stone (net), total..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 685,750 | 971,790 |
| Excluding Federal, State, and local government operations..... | ..do..... | ²⁹ 603,693 | 504,363 | 791,009 | (NA) | (NA) | (NA) |
| Commercial..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 618,424 | 892,479 |
| Government and contractor..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 67,326 | 79,311 |
| Limestone ³⁰ | ..do..... | ²⁹⁴⁷¹ 375 | 376,256 | 536,996 | (NA) | 488,348 | 661,926 |
| Granite ³⁰ | ..do..... | ²⁹⁴⁹ 629 | 49,213 | 86,103 | (NA) | 48,040 | 70,837 |
| Stone, n.e.c. ³⁰ | ..do..... | ²⁹⁸² 689 | 78,894 | 167,910 | (NA) | 149,362 | 239,027 |
| Construction sand, total..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 292,879 | 269,934 |
| Excluding Federal, State, and local government operations..... | ..do..... | ²⁷¹ 569 | 263,316 | 265,168 | (NA) | (NA) | (NA) |
| Commercial..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 250,357 | 241,420 |
| Government and contractor..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 42,522 | 28,514 |
| Glass sand..... | ..do..... | 8,109 | 8,097 | 27,210 | (NA) | 7,309 | 24,341 |
| Molding sand..... | ..do..... | 7,755 | 7,757 | 20,988 | (NA) | 7,579 | 20,814 |
| Industrial sand, n.e.c..... | ..do..... | 5,520 | 5,528 | 22,693 | (NA) | 6,211 | 23,411 |
| Gravel, total..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 507,872 | 508,772 |
| Excluding Federal, State, and local government operations..... | ..do..... | ³³⁴ 675 | 324,945 | 364,058 | (NA) | (NA) | (NA) |
| Commercial..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 319,215 | 350,010 |
| Government and contractor..... | ..do..... | (NA) | (NA) | (NA) | (NA) | 188,657 | 158,762 |
| Bentonite: | | | | | | | |
| Crude bentonite..... | ..do..... | ³¹² 115 | 16,241 | 161,207 | (NA) | (NA) | (NA) |
| Net shipments by the mineral industries..... | ..do..... | (X) | 1,645 | 17,217 | 1,585 | (NA) | 18,536 |
| Fire clay: | | | | | | | |
| Crude fire clay..... | ..do..... | ³²⁸ 430 | 3,178 | 13,684 | } 8,390 | (NA) | 39,558 |
| Prepared fire clay..... | ..do..... | (NA) | 1,069 | 5,817 | | | |
| Fuller's earth: | | | | | | | |
| Net shipments..... | ..do..... | (X) | 462 | 10,094 | 482 | (NA) | 11,211 |
| Kaolin and ball clay: | | | | | | | |
| Crude kaolin and ball clay..... | ..do..... | ³¹⁵ 254 | 16,331 | 162,373 | } 3,712 | (NA) | 67,311 |
| Prepared kaolin and ball clay..... | ..do..... | (NA) | 3,269 | 64,913 | | | |
| Feldspar: | | | | | | | |
| Crude feldspar..... | ..do..... | 1,052 | 25 | 130 | 615 | (NA) | 5,524 |
| Prepared feldspar..... | ..do..... | (NA) | 593 | 8,130 | (NA) | 599 | 7,353 |
| Common clay and shale: | | | | | | | |
| Crude common clay and shale..... | ..do..... | ³²³⁷ 101 | 2,329 | 3,650 | } 35,968 | (NA) | 44,194 |
| Prepared common clay and shale..... | ..do..... | (NA) | 4,661 | 26,632 | | | |
| Aplite and kyanite..... | ..do..... | (NA) | 204 | 4,021 | } 739 | (NA) | 6,220 |
| Magnesite and olivine..... | ..do..... | (NA) | 198 | 8,694 | | | |
| Barite: | | | | | | | |
| Crude barite..... | ..do..... | 1,088 | 268 | 3,589 | ³³ 803 | (NA) | (NA) |
| Prepared barite..... | ..do..... | (NA) | 1,147 | 28,445 | ³⁴¹ 027 | ³⁴¹ 030 | ³⁴²⁵ 5,177 |
| Net shipments by the barite industry..... | ..do..... | (X) | ¹⁶ 832 | ¹⁶ 16,392 | (X) | 824 | 9,402 |

See footnotes at end of table.

**TABLE 7. 1963 Bureau of the Census and Bureau of Mines Statistics
Compared—Continued**

| Product | Unit of measure | Bureau of the Census statistics | | | Bureau of Mines statistics | | |
|--|--------------------|---------------------------------|---|-----------------------|----------------------------|------------------------|-----------------------|
| | | Production | Shipments, including interplant transfers | | Production ¹ | Shipments ¹ | |
| | | | Quantity | Value | | Quantity | Value |
| | | (Quantity) | | (\$1,000) | (Quantity) | | (\$1,000) |
| NONMETALLIC MINERALS, EXCEPT FUELS ¹ —Continued | | | | | | | |
| Fluorspar: | | | | | | | |
| Production and shipments: | | | | | | | |
| Crude fluorspar..... | ..do..... | 595 | 116 | 906 | 586 | (NA) | (NA) |
| Prepared fluorspar..... | ..do..... | ³⁵ 296 | ³⁵ 293 | ³⁵ 12,471 | 188 | (NA) | (NA) |
| Net shipments..... | ..do..... | (X) | (³⁶) | 10,038 | (X) | ³⁷ 200 | ³⁷ 9,001 |
| Crude fluorspar prepared..... | ..do..... | ³⁵ 716 | (NA) | (NA) | 586 | (NA) | (NA) |
| Potash, soda, and borate minerals: | | | | | | | |
| Potassium salts: | | | | | | | |
| Crude salts..... | 1,000 short tons.. | 16,714 | } 384,608 | 38104,209 | { 16,414 | (NA) | (NA) |
| Processed or refined salts..... | ..do..... | 4,515 | | | | (NA) | ²¹ 109,276 |
| Sodium carbonates..... | ..do..... | (NA) | 1,107 | 26,595 | (NA) | 1,119 | 27,616 |
| Sodium sulfates..... | ..do..... | (NA) | 432 | 8,778 | (NA) | 235 | 8,392 |
| Boron compounds..... | ..do..... | (NA) | 16723 | 1646,942 | (NA) | 700 | 54,981 |
| Phosphate rock: | | | | | | | |
| Crude ore or matrix..... | 1,000 long tons... | 63,403 | 3,703 | 10,897 | 61,598 | (NA) | (NA) |
| Washed or concentrated..... | ..do..... | 18,006 | 10,218 | 43,396 | 16,794 | (NA) | (NA) |
| Dried, calcined, or sintered..... | ..do..... | 16,936 | 16,948 | 107,365 | 15,164 | (NA) | (NA) |
| Net shipments..... | ..do..... | (X) | { ¹⁶ 22,044 | ¹⁶ 128,035 | (X) | 19,860 | 140,642 |
| | | | | | | | |
| Rock salt..... | 1,000 short tons.. | (NA) | 168,769 | 1658,207 | (NA) | 8,345 | 51,648 |
| Native sulfur and sulfur ore..... | 1,000 long tons... | 4,883 | 4,923 | 113,091 | 4,883 | ³⁷ 4,996 | ³⁷ 99,029 |
| Frasch process sulfur..... | ..do..... | 4,882 | 4,922 | 113,076 | 4,882 | ³⁷ 4,995 | ³⁷ 99,014 |
| Sulfur ore..... | ..do..... | 1 | 1 | 15 | 1 | ³⁷ 1 | ³⁷ 15 |
| Gypsum: | | | | | | | |
| Crude..... | 1,000 short tons.. | ⁴¹ 10,176 | 339 | 1,094 | 10,388 | (NA) | ²¹ 38,138 |
| Prepared (crushed, ground, screened, or dried)... | ..do..... | (NA) | 4,736 | 19,757 | (NA) | (NA) | (NA) |
| Mica: | | | | | | | |
| Hand cobbled and sheet mica..... | 1,000 lbs..... | 108 | 108 | 16 | 103 | (NA) | 13 |
| Scrap (or flake) mica..... | 1,000 short tons.. | 113 | 42 | 1,320 | 109 | (NA) | 2,776 |
| Ground mica..... | ..do..... | (NA) | 124 | 7,549 | 117 | (NA) | 6,805 |
| Native asphalt and bitumens: | | | | | | | |
| Gilsonite..... | ..do..... | (D) | (D) | } 8,799 | 1,633 | (NA) | ²¹ 8,383 |
| Bituminous limestone and sandstone..... | ..do..... | 1,314 | 1,317 | | | | |
| Pumice and pumicite..... | ..do..... | 2,308 | 2,294 | 5,460 | ⁴² 2,618 | (NA) | ⁴² 6,578 |
| Talc, soapstone, and pyrophyllite: | | | | | | | |
| Crude..... | ..do..... | 873 | ¹⁶ 219 | ¹⁶ 1,946 | ⁴³ 804 | (NA) | ⁴³ 5,505 |
| Prepared..... | ..do..... | (NA) | 795 | 18,694 | ⁴³ 730 | (NA) | ⁴³ 18,110 |
| Natural abrasives, except sand..... | ..do..... | 84 | 83 | 5,001 | 91 | (NA) | 2,052 |
| Peat..... | ..do..... | 566 | 549 | 7,374 | ⁴⁴ 579 | (NA) | ⁴⁴ 5,423 |
| Asbestos, crude and prepared..... | ..do..... | 68 | 64 | 5,490 | ⁴⁴ 66 | (NA) | ⁴⁴ 5,425 |
| Diatomite, prepared..... | ..do..... | ⁴⁵ 554 | ⁴⁵ 554 | ⁴⁵ 27,952 | ⁴⁶ 482 | (NA) | ⁴⁶ 24,149 |
| Perlite..... | ..do..... | 385 | ⁴⁷ 343 | ⁴⁷ 4,652 | 325 | (NA) | 2,727 |
| Other nonmetallic minerals..... | ..do..... | 412 | ¹⁶ 391 | ¹⁶ 6,146 | (NA) | (NA) | ⁴⁸ 23,364 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing data for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For nonmetallic minerals (except fuels), unless otherwise noted, figures represent minerals "sold or used by producers".

²Manganiferous iron ore is included with "iron ore, except manganiferous iron ore."

³Represents direct-shipping ore, treated ores to consumers, and agglomerates.

⁴Represents manganiferous iron ore and for Minnesota ferruginous manganese ore.

⁵Represents only ores mined in the Copper Ores, Lead and Zinc Ores, Lode Gold, and Silver Ores Industries.

⁶Census quantity figures represent gross metal content; Bureau of Mines quantity figures represent recoverable metal content of mine production.

⁷Estimated by the Bureau of Mines from the quantity of mine production and an average price. For copper, lead, and zinc, represents the weighted average unit price of domestic refined metals delivered to purchasers. For gold, represents the price under authority of the Gold Reserve Act of January 31, 1944. For silver, represents the Treasury buying price for newly mined silver.

⁸Represents copper ore sold or treated.

⁹Represents lead ore; zinc ore; lead-zinc ore; and copper-lead, copper-zinc, and copper-lead-zinc ores.

¹⁰Represents gold ore and gold-silver ore produced.

¹¹Represents metal contained in gold ore and gold-silver ore produced less mill bullion produced.

¹²Represents production.

¹³Represents silver ore produced.

¹⁴Represents concentrates only.

¹⁵Represents metal contained in silver ore.

Footnotes continued on next page.

**TABLE 7. 1963 Bureau of the Census and Bureau of Mines Statistics
Compared—Continued**

Footnotes for Table 7--Continued

- ¹⁶Represents gross shipments less receipts from other establishments for preparation or treatment.
¹⁷Represents crude ores.
¹⁸Represents treated manganese ores, nodules, and sinter produced at domestic treatment plants whether from domestic or foreign ores.
¹⁹Represents manganese ore (35 percent or more manganese) and ferruginous manganese ore, except in Minnesota. These shipments represent marketable ores for the consumer. Besides direct-shipping ore, they include without duplication concentrates and nodules made from domestic ores.
²⁰Represents mercury ores treated.
²¹Represents value of production.
²²Represents uranium ore. The value figure represents the value of such ore at the mine.
²³Includes lignite ash valued for its uranium content, slurry, and low-grade concentrates shipped to mills for further upgrading.
²⁴Represents 14 thousand tons of U₃O₈ contained in uranium concentrates valued at \$225,000 thousand and 4 thousand tons of vanadium contained in vanadium concentrates valued at \$13,788 thousand.
²⁵Represents raw coal shipped for use without preparation plus prepared coal.
²⁶Represents crude petroleum shipped plus crude petroleum produced and used at the same establishment in lease operations.
²⁷Represents marketed production, "comprising gas sold or consumed by producers, including losses in transmission, amounts added to storage, and increases in gas in pipe lines." Census figures show 551,102 million cubic feet of gas produced and used in the same establishment in lease operations and net increase in underground storage of 5,201 million cubic feet; these figures are not included in the Census shipments figures shown.
²⁸Figures for rough monumental marble are included with those for dressed monumental marble.
²⁹Represents stone shipments plus stone mined and used in the same establishment in making cement, lime, and other manufactured products.
³⁰Census figures exclude operations by Federal, State, and local governments. Bureau of Mines figures represent totals for all stone sold or used by commercial, government, and contractor operations.
³¹Represents quantity mined and prepared at same establishment plus quantity of crude net shipments.
³²Represents quantity mined and used at the same establishment in making cement, clay products, and prepared clay plus quantity of crude clay shipped.
³³Represents mine or plant output of primary barite.
³⁴Represents crushed and ground barite sold by producers.
³⁵Includes foreign ores prepared in the United States.
³⁶Not shown, since a significant tonnage cannot be computed by the only method available: subtraction of minerals received for preparation from the gross tonnage shipped, with both of these tonnages including large quantities of foreign ores.
³⁷Represents shipments.
³⁸Represents net shipments obtained from gross shipments of crude and processed or refined salts by subtracting shipments of crude salts to other establishments for processing or refining.
³⁹Represents production of marketable potassium salts and probably includes some marketable crude salts.
⁴⁰Represents shipments of crude ore or matrix, except to washer or concentrator; washed or concentrated rock, except to drier; and dried, calcined, or sintered rock.
⁴¹In addition to gypsum mined for shipment in crude or prepared form, includes 6,931 tons of gypsum valued at approximately \$24,009 thousand, produced and used in the same establishment in the manufacture of calcined gypsum products.
⁴²Includes volcanic cinder.
⁴³Excludes dimension soapstone.
⁴⁴Represents sales.
⁴⁵Includes crude diatomite produced for shipment without preparation, amounting to less than one percent of the total.
⁴⁶Represents average annual production, 1960-1962.
⁴⁷Includes some expanded perlite produced in conjunction with mining.
⁴⁸Represents gem stones, vermiculite, graphite, greensand marl, staurolite, and other items not elsewhere classified.

Geographic Divisions

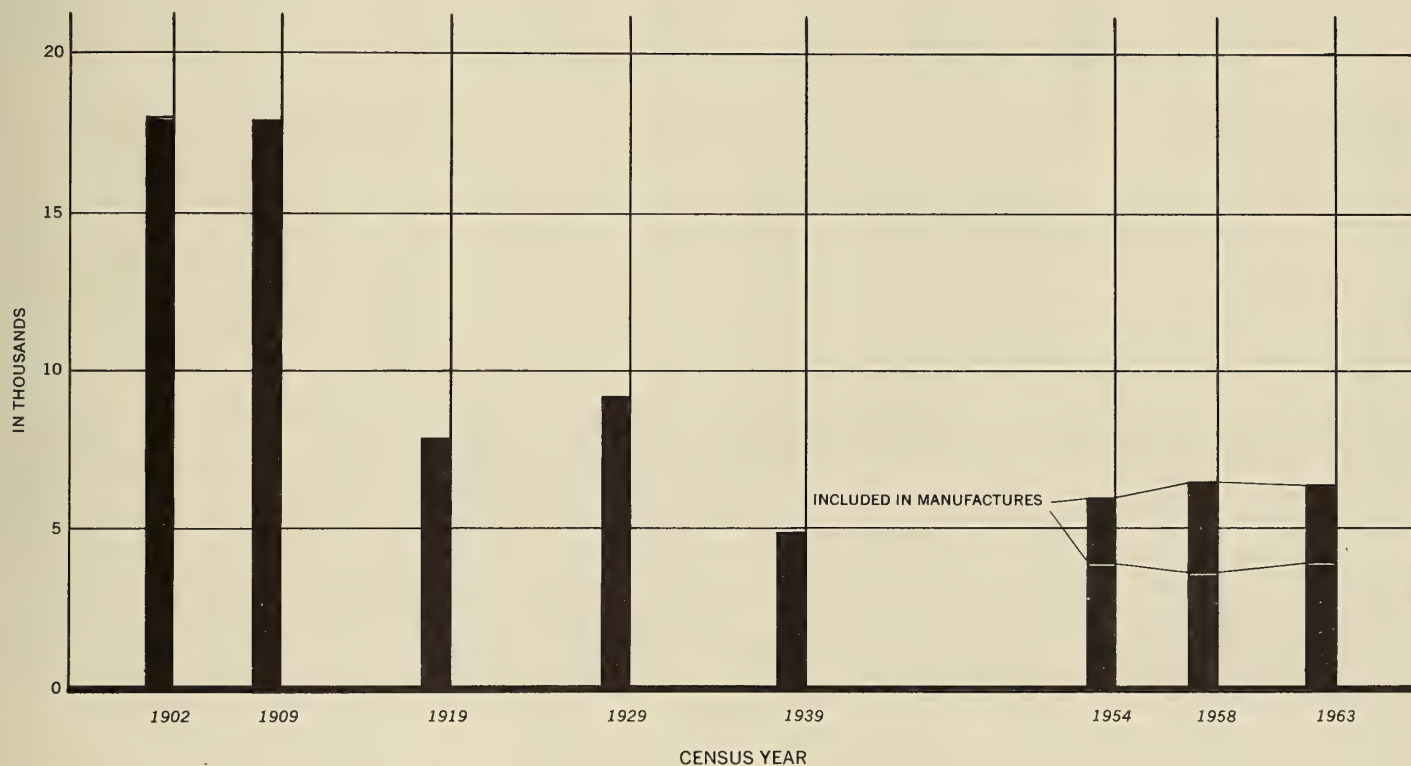
CONTENTS

| | page |
|--------------------------|------|
| New England ----- | 75 |
| Middle Atlantic ----- | 81 |
| East North Central ----- | 89 |
| West North Central ----- | 97 |
| South Atlantic ----- | 105 |
| East South Central ----- | 113 |
| West South Central ----- | 121 |
| Mountain ----- | 129 |
| Pacific ----- | 137 |

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEW ENGLAND



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|--|--|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 350 | 58 | 3 950 | 22 914 | 3 159 | 6 778 | 16 659 | 42 353 | |
| 1958. | 344 | 39 | 3 616 | 17 477 | 2 745 | 5 744 | 11 760 | 32 301 | |
| 1954. | 335 | 40 | 4 069 | 15 683 | 3 456 | 7 581 | 12 434 | 32 104 | |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | 450 | 78 | 6 401 | 34 945 | 5 387 | 11 459 | 27 145 | 67 516 | |
| 1958. | 443 | 53 | 6 521 | 29 670 | 5 230 | 10 852 | 21 527 | 53 958 | |
| 1954 ¹ | 456 | 56 | 5 938 | 23 142 | 5 232 | 11 149 | 13 950 | 46 785 | |
| 1939 ² | ³ 332 | (NA) | 4 944 | 6 603 | 4 272 | 8 659 | 4 863 | 14 415 | |
| 1929 ⁴ | 354 | (NA) | 9 187 | 14 553 | 8 384 | (NA) | 12 241 | 26 202 | |
| 1919 ⁵ | 302 | (NA) | 7 837 | 9 251 | 7 213 | (NA) | 8 036 | 14 915 | |
| 1909 ⁵ | 519 | (NA) | 17 959 | 10 747 | 17 136 | (NA) | 9 848 | 14 559 | |
| 1902 ⁶ | ³ 746 | (NA) | 18 041 | 11 111 | ⁷ 16 741 | (NA) | 9 974 | 14 838 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ^a | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 13 357 | 724 | 1 596 | 5 260 | 56 167 | 7 123 | 850 | 269 | 387 |
| 1958. | 11 496 | 122 | 1 392 | 2 693 | 44 034 | 3 970 | 711 | 259 | (NA) |
| 1954. | 8 803 | 135 | 1 166 | 3 404 | 41 325 | 4 292 | 541 | 157 | 257 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | ⁹ 22 373 | 1 115 | ⁹ 1 716 | ¹⁰ 6 059 | 90 743 | ¹⁰ 8 036 | (NA) | (NA) | (NA) |
| 1958. | ⁹ 16 416 | 550 | ⁹ 1 603 | ¹⁰ 3 374 | 71 232 | ¹⁰ 4 669 | 10874 | 167 | (NA) |
| 1954 ¹ | ⁹ 11 861 | 454 | 1 361 | ¹⁰ 3 715 | 59 559 | ¹⁰ 4 617 | 10638 | 122 | ¹⁰ 236 |
| 1939 ² | 3 362 | (NA) | 37 | (NA) | 17 314 | (NA) | 404 | 95 | 143 |
| 1929 ⁴ | 4 429 | (NA) | 64 | 1 411 | 30 695 | (NA) | 680 | 81 | 104 |
| 1919 ⁵ | 3 620 | - | 198 | (NA) | 13 733 | (NA) | 11 435 | 60 | 62 |
| 1909 ⁵ | 2 653 | - | 111 | (NA) | 17 328 | (NA) | (NA) | (NA) | 62 |
| 1902 ⁶ | 2 770 | (NA) | 2 | (NA) | 17 610 | (NA) | (NA) | (NA) | 45 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations, and for one dimension granite mining operation, in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. Excludes data for one non-producing operation in Maine.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale and peat operations. There were 27 such mines in 1939; the value of products of 24 of these mines was \$142 thousand.

⁵Excludes data for sand and gravel operations and stone quarries operated as parts of cement and lime establishments. There were 53 such establishments in 1929; the value of products of 51 of these establishments was \$3,299 thousand. For 1919, excludes data for two nonproducing establishments. See also footnote 4.

⁶Excludes data for sand, gravel, common clay, and shale operations. Includes data

for lime plants producing lime valued at \$1,490 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919 and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for the cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to about 8 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|--------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 14 | ALL MINERAL OPERATIONS | 450 | 78 | 6 401 | 34 945 | 5 387 | 11 459 | 27 145 |
| | MINERAL INDUSTRIES | 350 | 58 | 3 950 | 22 914 | 3 159 | 6 778 | 16 659 |
| | INCLUDED IN MANUFACTURES | 100 | 20 | ¹ 2 451 | ¹ 12 031 | ¹ 2 228 | 4 681 | 10 486 |
| | NONMETALLIC MINERALS MINING. | 446 | 77 | 6 163 | 32 603 | 5 365 | 11 410 | 26 956 |
| 1411 | MINERAL INDUSTRIES | 346 | 57 | 3 712 | 20 572 | 3 137 | 6 729 | 16 470 |
| | INCLUDED IN MANUFACTURES | 100 | 20 | ¹ 2 451 | ¹ 12 031 | ¹ 2 228 | 4 681 | 10 486 |
| | DIMENSION STONE. | 52 | 17 | 2 310 | 11 222 | 2 054 | 4 361 | 9 425 |
| | MINERAL INDUSTRIES | 21 | 4 | 389 | 1 960 | 356 | 742 | 1 708 |
| 1411 | INCLUDED IN MANUFACTURES | 31 | 13 | 1 921 | 9 262 | 1 698 | 3 619 | 7 717 |
| | DIMENSION GRANITE. | 28 | 11 | 1 013 | 5 548 | 869 | 1 771 | 4 363 |
| | MINERAL SUBINDUSTRY. | 13 | 4 | 361 | 1 873 | 329 | 687 | 1 622 |
| | INCLUDED IN MANUFACTURES | 15 | 7 | 652 | 3 675 | 540 | 1 084 | 2 741 |
| 1421 | DIMENSION STONE, N.E.C.. | 24 | 6 | 1 297 | 5 674 | 1 185 | 2 590 | 5 062 |
| | INCLUDED IN MANUFACTURES | 16 | 6 | 1 269 | 5 587 | 1 153 | 2 535 | 4 976 |
| | CRUSHED AND BROKEN STONE | 62 | 21 | 1 263 | 7 509 | 1 079 | 2 363 | 6 067 |
| | MINERAL INDUSTRY | 40 | 16 | 880 | 5 460 | 696 | 1 595 | 4 018 |
| 1421 | INCLUDED IN MANUFACTURES | 22 | 5 | ¹ 383 | ¹ 2 049 | ¹ 383 | 768 | 2 049 |
| | CRUSHED AND BROKEN LIMESTONE | 24 | 9 | 402 | 1 943 | 361 | 808 | 1 568 |
| | MINERAL SUBINDUSTRY. | 16 | 6 | 283 | 1 397 | 242 | 570 | 1 022 |
| | INCLUDED IN MANUFACTURES | 8 | 3 | ¹ 119 | ¹ 546 | ¹ 119 | 238 | 546 |
| 1441 | CRUSHED AND BROKEN GRANITE (MINERAL SUBINDUSTRY) | 5 | 3 | 160 | 876 | 101 | 229 | 595 |
| | CRUSHED AND BROKEN STONE, N.E.C., (MINERAL SUBINDUSTRY) | 19 | 7 | 437 | 3 187 | 353 | 796 | 2 401 |
| | SAND AND GRAVEL. | 290 | 32 | 2 070 | 11 381 | 1 780 | 3 741 | 9 408 |
| | MINERAL INDUSTRY | 253 | 30 | 1 960 | 10 813 | 1 670 | 3 518 | 8 840 |
| 1441 | INCLUDED IN MANUFACTURES | 32 | 2 | ¹ 110 | ¹ 568 | ¹ 110 | 223 | 568 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 252 | 29 | 1 910 | 10 556 | 1 630 | 3 417 | 8 635 |
| | INDUSTRIAL SAND AND GRAVEL SUBINDUSTRIES ² | 6 | 1 | 50 | 257 | 40 | 101 | 205 |
| | CLAY AND RELATED MINERALS. | 27 | 4 | 193 | 834 | 169 | 344 | 706 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 12 | 3 | 319 | 1 598 | 275 | 580 | 1 291 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 14 | ALL MINERAL OPERATIONS | 67 516 | ³ 31 263 | ¹ 90 743 | ⁴ 8 036 | 6 521 | 53 958 |
| | MINERAL INDUSTRIES | 42 353 | 20 937 | 56 167 | 7 123 | 3 616 | 32 301 |
| | INCLUDED IN MANUFACTURES | 25 163 | ³ 10 326 | ¹ 34 576 | ⁴ 913 | ¹ 2 905 | 21 657 |
| | NONMETALLIC MINERALS MINING. | 67 182 | ³ 31 217 | ¹ 90 366 | ⁴ 8 033 | 6 200 | 53 518 |
| 1411 | MINERAL INDUSTRIES | 42 019 | 20 891 | 55 790 | 7 120 | 3 295 | 31 861 |
| | INCLUDED IN MANUFACTURES | 25 163 | ³ 10 326 | 34 576 | ⁴ 913 | ¹ 2 905 | 21 657 |
| | DIMENSION STONE. | 16 490 | 8 986 | 24 310 | 1 166 | 2 831 | 14 924 |
| | MINERAL INDUSTRIES | 3 609 | 1 428 | 4 784 | 253 | 204 | 1 037 |
| 1411 | INCLUDED IN MANUFACTURES | 12 881 | 7 558 | 19 526 | 913 | 2 627 | 13 887 |
| | DIMENSION GRANITE. | 8 442 | 4 193 | 12 072 | 563 | 1 225 | 8 801 |
| | MINERAL SUBINDUSTRY. | 3 446 | 1 335 | 4 580 | 201 | 156 | 918 |
| | INCLUDED IN MANUFACTURES | 4 996 | 2 858 | 7 492 | 362 | 1 069 | 7 883 |
| 1421 | DIMENSION STONE, N.E.C.. | 3 048 | 4 793 | 12 238 | 603 | 1 606 | 6 123 |
| | INCLUDED IN MANUFACTURES | 7 885 | 4 700 | 12 034 | 551 | 1 553 | 6 004 |
| | CRUSHED AND BROKEN STONE | 19 519 | ³ 7 112 | ¹ 25 237 | (NA) | 1 210 | 14 872 |
| | MINERAL INDUSTRY | 10 911 | 4 967 | 14 484 | 1 394 | 1 094 | 11 022 |
| 1421 | INCLUDED IN MANUFACTURES | 8 608 | ³ 2 145 | ¹ 10 753 | (NA) | ¹ 116 | 3 850 |
| | CRUSHED AND BROKEN LIMESTONE | 5 905 | ³ 2 511 | ¹ 7 913 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY. | 2 914 | 1 422 | 3 833 | 503 | 224 | 1 392 |
| | INCLUDED IN MANUFACTURES | 2 991 | ³ 1 089 | ¹ 4 080 | (NA) | (NA) | (NA) |
| 1441 | CRUSHED AND BROKEN GRANITE (MINERAL SUBINDUSTRY) | 1 340 | 568 | 1 327 | 81 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C., (MINERAL SUBINDUSTRY) | 6 657 | 2 977 | 8 924 | 810 | (NA) | (NA) |
| | SAND AND GRAVEL. | 25 237 | ³ 12 551 | ¹ 33 139 | (NA) | 1 529 | 18 104 |
| | MINERAL INDUSTRY | 22 038 | 12 101 | 29 440 | 4 599 | 1 402 | 14 762 |
| 1441 | INCLUDED IN MANUFACTURES | 3 249 | ³ 450 | ¹ 3 699 | (NA) | ¹ 127 | 3 342 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|------------------------------------|--|--|-----------------------------------|---------------------------|------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | NONMETALLIC MINERAL MINING—CONTINUED | | | | | | |
| | SAND AND GRAVEL—CONTINUED | | | | | | |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 21 346 | 11 693 | 28 526 | 4 503 | ⁵ 1 365 | ⁵ 14 367 |
| | INDUSTRIAL SAND AND GRAVEL SUBINDUSTRIES ² | 692 | 418 | 914 | 196 | ⁵ 37 | ⁵ 395 |
| | CLAY AND RELATED MINERALS. | 1 574 | 1 215 | 2 590 | (NA) | (NA) | (NA) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 4 230 | 1 319 | 4 978 | 571 | 499 | 4 451 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Represents the glass sand, molding sand, and industrial sand, n.e.c. subindustries.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

⁵Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ¹ of primary products by establishment classified in— | | | |
|------|--|--------------------|--|--|----------------------------|--|----------------------|--|--|--|---------------------|--|---------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other construction, machinery, and equipment ² (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES . | 20 937 | 13 357 | 724 | 1 596 | 5 260 | 7 123 | 450 | 6 673 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING. | 20 891 | 13 311 | 724 | 1 596 | 5 260 | 7 120 | 449 | 6 671 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . | 4 967 | ³ 3 656 | (³) | 315 | 996 | 1 394 | 11 | 1 383 | 8 042 | 13 898 | ⁴ 5 711 | ⁴ 10 924 |
| | CRUSHED AND BROKEN STONE, N.E.C. | 2 977 | ³ 2 087 | (³) | 255 | 635 | 810 | 3 | 807 | 5 234 | 8 514 | ⁵ 2 331 | ⁵ 5 480 |
| 1441 | SAND AND GRAVEL. | 12 101 | 6 840 | 484 | 1 024 | 3 753 | 4 699 | 42 | 4 657 | 27 400 | ⁶ 32 354 | ⁴ 4 575 | (⁶) |
| | CONSTRUCTION SAND AND GRAVEL. | 11 683 | 6 627 | 484 | 975 | 3 597 | 4 503 | 42 | 4 461 | 27 153 | ⁶ 31 410 | ⁴ 4 575 | (⁶) |

Note: See appendix A for an explanation of terms used.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation of less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Cost of minerals received for preparation is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.

⁵Excludes figures for minerals produced and used in the same establishment.

⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

TABLE 2C. **Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963**

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Separately operated preparation plants | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| 14 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 344 | 335 | 72 | 2 | 69 | 1 | 260 | 4 | 250 | 6 | 3 | 9 |
| | NUMBER OF EMPLOYEES..... | 3 616 | 3 584 | 501 | (D) | (D) | (D) | 3 021 | 100 | 2 854 | 67 | 62 | 32 |
| | VALUE ADDED IN MINING.....\$1,000.. | 41 943 | 41 920 | 4 939 | (D) | (D) | (D) | 36 237 | 947 | 34 474 | 816 | 744 | 23 |
| 141 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 344 | 335 | 72 | 2 | 69 | 1 | 260 | 4 | 250 | 6 | 3 | 9 |
| | NUMBER OF EMPLOYEES..... | 3 616 | 3 584 | 501 | (D) | (D) | (D) | 3 021 | 100 | 2 854 | 67 | 62 | 32 |
| | VALUE ADDED IN MINING.....\$1,000.. | 41 943 | 41 920 | 4 939 | (D) | (D) | (D) | 36 237 | 947 | 34 474 | 816 | 744 | 23 |
| 142 | DIMENSION STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 21 | 21 | 20 | 1 | 19 | - | 1 | - | 1 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 389 | 389 | (D) | (D) | (D) | - | (D) | - | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 609 | 3 609 | (D) | (D) | (D) | - | (D) | - | (D) | - | - | - |
| 143 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 40 | 39 | 4 | - | 4 | - | 34 | - | 34 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 850 | (D) | (D) | - | (D) | - | 727 | - | 727 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 10 911 | (D) | (D) | - | (D) | - | 10 077 | - | 10 077 | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 258 | 252 | 39 | - | 39 | - | 211 | - | 205 | 6 | 2 | 6 |
| | NUMBER OF EMPLOYEES..... | 1 924 | (D) | (D) | - | (D) | - | 1 750 | - | 1 683 | 67 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 22 038 | (D) | (D) | - | (D) | - | 20 220 | - | 19 404 | 816 | (D) | (D) |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for one metal mining establishment in Maine.TABLE 3. **General Statistics by Selected Industry Groups, for Counties: 1963 and 1958**

(For county statistics, see table 3 of the individual State reports)

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services

109 Miscellaneous metal ores
110 Anthracite
11C Anthracite mining services
120 Bituminous coal and lignite
12C Coal mining services
131 Crude petroleum and natural gas
132 Natural gas liquids

138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures

145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in man- u- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| NEW ENGLAND DIVISION, TOTAL. . . | 450 | 350 | 100 | - | - | 1 | - | - | - | 3 | - | - | - | - | - | - | - | - | 21 | 31 | 40 | 22 | 258 | 32 | 12 | 15 | - | 3 | 12 | - |
| NO EMPLOYEES | 38 | 27 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 1 | 21 | 10 | 1 | - | - | - | 1 | - |
| 1-4 EMPLOYEES. | 193 | 148 | 43 | - | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - | - | 8 | 7 | 7 | 8 | 119 | 16 | 5 | 12 | - | 2 | 6 | - |
| 5-9 EMPLOYEES. | 69 | 54 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 4 | 2 | 7 | 46 | 2 | 1 | 2 | - | 1 | 1 | - |
| 10-19 EMPLOYEES. | 72 | 63 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 7 | 14 | 1 | 42 | 2 | 1 | 1 | - | - | 1 | - |
| 20-49 EMPLOYEES. | 63 | 50 | 13 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | 7 | 13 | 4 | 30 | 2 | 4 | - | - | - | 1 | - |
| 50-99 EMPLOYEES. | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 3 | - | - | - | - | - | - | - | 1 | - |
| 100-249 EMPLOYEES. | 6 | 2 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | 1 | - | - | - | - | - | - | 1 | - |
| 250-500 EMPLOYEES. | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 500-999 EMPLOYEES. | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MIDDLE ATLANTIC

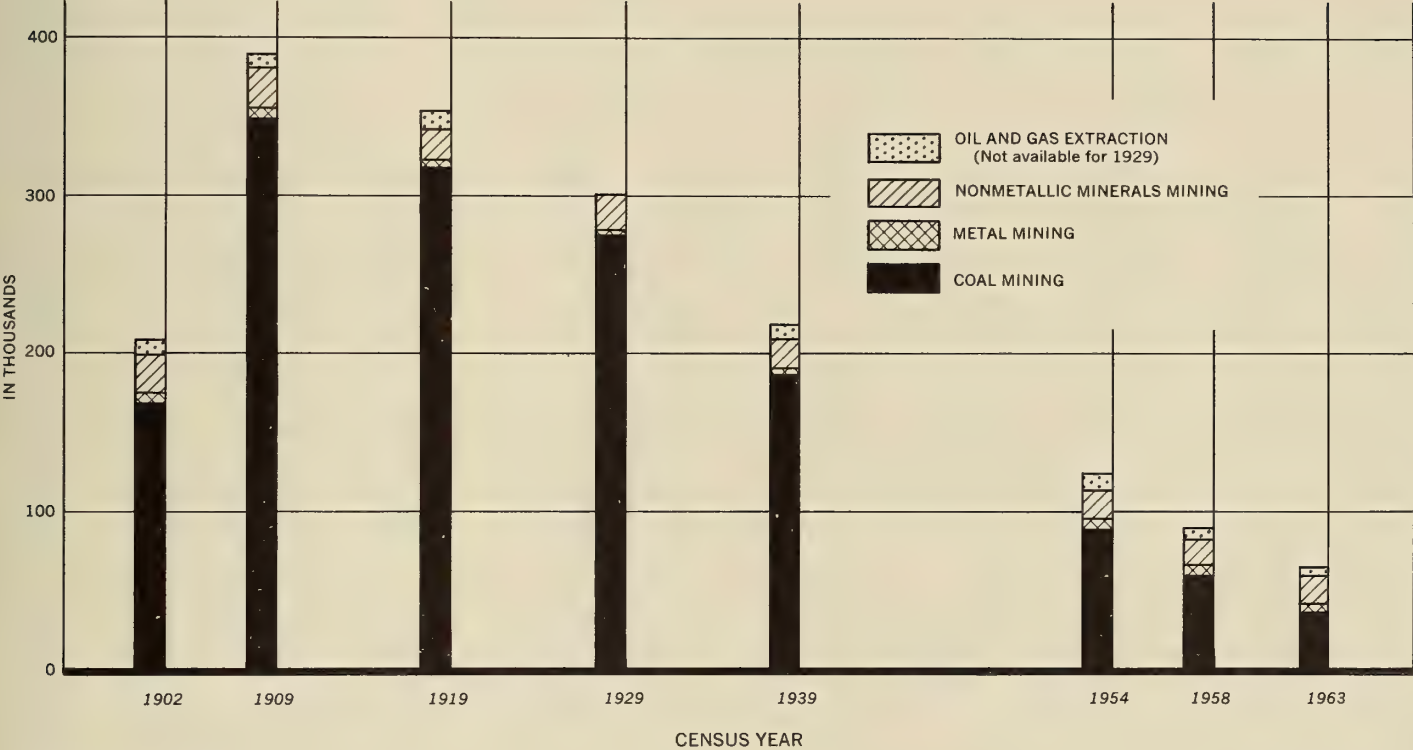


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|--|--|----------------------------|--|--|-----------------------------------|--------------------|--------------------------------------|----------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 4 080 | 523 | 62 555 | 364 641 | 50 867 | 99 760 | 273 682 | 740 308 | |
| 1958. | 4 500 | 636 | 87 398 | 418 758 | 72 795 | 124 374 | 324 407 | 733 341 | |
| 1954. | 5 320 | 782 | 120 795 | 483 943 | 105 017 | 177 172 | 392 232 | 1 767 158 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 4 322 | 565 | 65 478 | 379 348 | 53 722 | 105 496 | 287 955 | 786 488 | |
| 1958. | 4 750 | 683 | 90 387 | 431 426 | 75 702 | 130 121 | 336 614 | 779 189 | |
| 1954 ² | 5 541 | 842 | 124 321 | 497 033 | 108 461 | 184 141 | 404 916 | 1 800 722 | |
| 1939 ³ | 4 3 953 | (NA) | 219 481 | 297 502 | 203 871 | 317 732 | 259 280 | 428 317 | |
| 1919 ⁵ | 6 617 | (NA) | 353 656 | 495 393 | 334 285 | (NA) | 458 243 | 681 095 | |
| 1909 ⁵ | 6 776 | (NA) | 389 688 | 219 258 | 377 037 | (NA) | 205 205 | 305 775 | |
| 1902 ⁶ | 13 873 | (NA) | 209 066 | 128 937 | 198 781 | (NA) | 118 549 | 203 982 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 3 391 | 526 | 59 767 | 349 223 | 49 844 | 97 550 | 269 953 | 726 652 | |
| 1958. | 3 685 | 633 | 83 810 | 402 378 | 70 519 | 120 026 | 316 476 | 719 972 | |
| 1954 ² | 4 129 | 786 | 114 032 | 457 140 | 100 313 | 168 006 | 377 011 | 1 726 918 | |
| 1939 ³ | 2 724 | (NA) | 208 692 | 281 431 | 194 857 | 301 213 | 247 814 | 376 747 | |
| 1929 ⁸ | 2 197 | (NA) | 301 203 | 457 186 | 286 562 | (NA) | 419 395 | 622 264 | |
| 1919 ⁵ | 2 913 | (NA) | 341 742 | 481 121 | 324 351 | (NA) | 446 936 | 625 186 | |
| 1909 ⁵ | 3 022 | (NA) | 381 502 | 213 584 | 369 949 | (NA) | 200 823 | 276 609 | |
| 1902 ⁶ | 3 689 | (NA) | 199 399 | 121 566 | 190 527 | (NA) | 112 792 | 184 077 | |
| Kind of operation and year | Selected expenses | | | | | Energy used (kwh. equivalent) | | Horsepower rating of power equipment | |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ¹⁰ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | | Per production worker (1,000) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 213 811 | 147 322 | 63 510 | 72 945 | 1 128 825 | 109 071 | 12 998 | 256 | 3 970 |
| 1958. | 208 131 | 164 191 | 81 853 | 65 188 | 1 160 015 | 92 689 | 14 926 | 205 | (NA) |
| 1954. | 189 381 | 177 420 | 102 288 | 68 629 | 1 229 313 | 75 539 | 19 300 | 184 | 4 994 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 11 226 823 | 147 387 | 11 63 563 | 12 73 131 | 1 188 097 | 12 09 295 | 12 12 998 | 256 | 12 3 970 |
| 1958. | 11 216 227 | 164 236 | 11 81 874 | 12 65 407 | 1 213 971 | 12 92 962 | 12 14 958 | 198 | (NA) |
| 1954 ² | 11 198 416 | 177 431 | 11 102 367 | 12 68 717 | 1 271 938 | 12 75 691 | 12 19 360 | 178 | 12 5 015 |
| 1939 ³ | 83 386 | (NA) | 17 539 | (NA) | 529 242 | (NA) | 30 072 | 148 | 2 772 |
| 1919 ⁵ | 155 735 | 13 8 202 | 8 859 | (NA) | 853 891 | (NA) | 14 104 353 | 312 | 2 125 |
| 1909 ⁵ | 55 230 | 13 3 165 | 6 572 | (NA) | 370 742 | (NA) | (NA) | (NA) | 1 741 |
| 1902 ⁶ | 32 969 | (NA) | 5 996 | (NA) | 242 947 | (NA) | (NA) | (NA) | 1 251 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 11 215 080 | 146 610 | 11 51 623 | 12 68 860 | 1 116 857 | 12 91 968 | 12 11 318 | 227 | 12 3 537 |
| 1958. | 11 201 502 | 162 774 | 11 69 557 | 12 61 082 | 1 137 262 | 12 77 625 | 12 12 980 | 184 | (NA) |
| 1954 ² | 11 181 001 | 177 350 | 11 79 495 | 12 61 071 | 1 171 218 | 12 54 617 | 12 16 956 | 169 | 4 543 |
| 1939 ³ | 78 310 | (NA) | 12 395 | (NA) | 467 452 | (NA) | 27 456 | 141 | 2 533 |
| 1929 ⁸ | 116 808 | (NA) | 7 738 | 18 334 | 746 810 | (NA) | 56 520 | 197 | 2 404 |
| 1919 ⁵ | 143 766 | 5 077 | 3 689 | (NA) | 777 718 | (NA) | 14 101 022 | 311 | 1 724 |
| 1909 ⁵ | 49 369 | 28 | 2 870 | (NA) | 328 876 | (NA) | (NA) | (NA) | 1 219 |
| 1902 ⁶ | 26 445 | (NA) | 930 | (NA) | 211 452 | (NA) | (NA) | (NA) | 692 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry. For minerals received for preparation at natural gas liquids plants, excludes the cost of natural gas processed, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

²Excludes figures for sand and gravel mining operations in manufacturing establishments.

³Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. Except for number of establishments, excludes data for nonproducing operations in New Jersey as follows: One iron ore mine and one trap rock quarry and crushing plant. For "Excluding oil and gas extraction industries," includes data for one nonproducing crude petroleum and natural gas establishment in Pennsylvania.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel mining operations and for stone quarries operated as parts of cement and lime establishments. There were 141 such sand and gravel establishments in 1929, with products valued at \$26,003 thousand and 46 such stone operations at 46 establishments (the value of quarry products at 44 of these establishments was \$6,531 thousand.) See also footnote 8. For "Excluding oil and gas extraction industries" in 1909, except for number of establishments, includes data for 2 nonproducing oil and gas extraction operations.

⁶Excludes data for sand, gravel, common clay, and shale mining operations and, except for 2 operations in New Jersey, for crushed and broken stone quarries operated

as parts of cement establishments. Includes data for lime plants producing lime valued at \$2,114 thousand and for 2 cement plants in New Jersey.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Excludes data for common clay and shale mining operations. In 1939, there were 105 such mines with products valued at \$1,182 thousand.

⁹Includes data for nonproducing oil and gas extraction operations in Pennsylvania. See also footnote 6.

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes figures for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments. For New Jersey in 1958, also excludes figures for dimension stone operations in manufacturing establishments. For energy used and horsepower in 1963, also excludes figures for dimension stone operations in manufactures.

¹³Includes natural gas purchased for resale.

¹⁴Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to only 5 percent of the total kwh equivalent of energy used; and for "Excluding oil and gas extraction industries" in 1929, to 2 percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 4 322 | 565 | 65 478 | 379 348 | 53 722 | 105 496 | 287 955 |
| | MINERAL INDUSTRIES | 4 080 | 523 | 62 555 | 364 641 | 50 867 | 99 760 | 273 682 |
| | INCLUDED IN MANUFACTURES | 242 | 42 | 12 923 | 114 707 | 12 855 | 5 736 | 14 273 |
| 10 | METAL MINING | 24 | 17 | 25 948 | 240 837 | 4 313 | 8 210 | 25 779 |
| 1011 | IRON ORES | 13 | 9 | 3 387 | 21 859 | 2 982 | 5 624 | 18 386 |
| 11 | ANTHRACITE MINING | 1 069 | 102 | 11 786 | 58 835 | 10 324 | 19 544 | 49 889 |
| 1111 | ANTHRACITE | 1 026 | 85 | 10 692 | 53 022 | 9 331 | 17 758 | 44 867 |
| 1112 | ANTHRACITE MINING SERVICES | 43 | 17 | 1 094 | 5 813 | 993 | 1 786 | 5 022 |
| 12 | BITUMINOUS COAL MINING | 1 214 | 191 | 224 410 | 2142 952 | 21 243 | 39 822 | 117 293 |
| 1211 | BITUMINOUS COAL | 1 174 | 186 | 223 957 | 2140 434 | 20 823 | 38 874 | 114 974 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 40 | 5 | 453 | 2 518 | 420 | 948 | 2 319 |
| 13 | OIL AND GAS EXTRACTION | 931 | 39 | 5 711 | 30 125 | 3 878 | 7 946 | 18 002 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 746 | 30 | 4 702 | 25 340 | 2 966 | 5 871 | 13 690 |
| | CRUDE PETROLEUM | 574 | 14 | 2 415 | 12 872 | 1 579 | 3 172 | 6 440 |
| | NATURAL GAS | 172 | 16 | 2 287 | 12 468 | 1 387 | 2 699 | 7 250 |
| | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 106 | 6 | 672 | 3 420 | 613 | 1 458 | 3 161 |
| 1381 | OIL AND GAS FIELD SERVICES, N.E.C. | 72 | 3 | 312 | 1 239 | 281 | 582 | 1 060 |
| 14 | NONMETALLIC MINERALS MINING | 1 084 | 216 | 17 571 | 105 936 | 13 964 | 29 974 | 76 992 |
| | MINERAL INDUSTRIES | 842 | 174 | 14 648 | 91 229 | 11 109 | 24 238 | 62 719 |
| | INCLUDED IN MANUFACTURES | 242 | 42 | 12 923 | 114 707 | 12 855 | 5 736 | 14 273 |
| 1411 | DIMENSION STONE | 84 | 13 | 970 | 3 958 | 875 | 1 716 | 3 399 |
| | MINERAL INDUSTRY | 46 | 3 | 270 | 864 | 243 | 431 | 739 |
| | INCLUDED IN MANUFACTURES | 38 | 10 | 700 | 3 094 | 632 | 1 285 | 2 660 |
| | DIMENSION GRANITE | 8 | 1 | 74 | 377 | 62 | 119 | 288 |
| | INCLUDED IN MANUFACTURES | 5 | 1 | 62 | 345 | 51 | 98 | 258 |
| | DIMENSION STONE, N.E.C. | 70 | 11 | 860 | 3 466 | 782 | 1 540 | 3 013 |
| | MINERAL SUBINDUSTRY | 37 | 2 | 222 | 717 | 201 | 353 | 611 |
| | INCLUDED IN MANUFACTURES | 33 | 9 | 638 | 2 749 | 581 | 1 187 | 2 402 |
| 1421 | CRUSHED AND BROKEN STONE | 331 | 126 | 8 563 | 52 712 | 6 907 | 15 329 | 39 097 |
| | MINERAL INDUSTRY | 276 | 105 | 7 402 | 46 187 | 5 746 | 13 008 | 32 572 |
| | INCLUDED IN MANUFACTURES | 55 | 21 | 11 161 | 16 525 | 11 161 | 2 321 | 6 525 |
| | CRUSHED AND BROKEN LIMESTONE | 218 | 87 | 5 555 | 32 416 | 4 654 | 10 223 | 25 881 |
| | MINERAL SUBINDUSTRY | 178 | 68 | 4 676 | 27 301 | 3 775 | 8 465 | 20 766 |
| | INCLUDED IN MANUFACTURES | 40 | 19 | 1 879 | 15 115 | 2 879 | 1 758 | 5 115 |
| | CRUSHED AND BROKEN GRANITE | 9 | 2 | 147 | 683 | 134 | 258 | 591 |
| | CRUSHED AND BROKEN STONE, N.E.C. | 104 | 37 | 2 861 | 19 613 | 2 119 | 4 848 | 12 625 |
| | MINERAL SUBINDUSTRY | 89 | 35 | 2 579 | 18 203 | 1 837 | 4 285 | 11 215 |
| | INCLUDED IN MANUFACTURES | 15 | 2 | 1 282 | 11 410 | 1 282 | 563 | 1 410 |
| 1441 | SAND AND GRAVEL | 485 | 57 | 4 932 | 28 290 | 4 106 | 8 420 | 22 581 |
| | MINERAL INDUSTRY | 418 | 55 | 4 520 | 26 517 | 3 694 | 7 595 | 20 808 |
| | INCLUDED IN MANUFACTURES | 67 | 2 | 412 | 11 773 | 412 | 825 | 1 773 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 378 | 43 | 3 511 | 20 720 | 2 873 | 5 911 | 16 322 |
| | GLASS SAND SUBINDUSTRY | 6 | 3 | 423 | 2 625 | 321 | 736 | 1 952 |
| | MOLDING SAND SUBINDUSTRY | 24 | 6 | 411 | 2 224 | 339 | 628 | 1 698 |
| | INDUSTRIAL SAND, N.E.C., SUBINDUSTRY | 10 | 3 | 175 | 948 | 161 | 320 | 836 |
| | CLAY AND RELATED MINERALS | 134 | 11 | 11 046 | 15 427 | 1 916 | 1 820 | 4 424 |
| 1453 | FIRE CLAY | 68 | 5 | 485 | 2 135 | 458 | 866 | 2 033 |
| | MINERAL INDUSTRY | 45 | 3 | 289 | 1 195 | 262 | 477 | 1 093 |
| | INCLUDED IN MANUFACTURES | 23 | 2 | 1 2196 | 1940 | 1196 | 389 | 940 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 64 | 6 | 1464 | 12 520 | 1443 | 928 | 2 343 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 8 | 3 | 1 309 | 10 844 | 521 | 1 308 | 3 457 |
| | MISCELLANEOUS MINERALS, N.E.C. | 35 | 6 | 1732 | 14 633 | 1621 | 1 346 | 3 963 |
| 1492 | GYPSUM | 5 | 3 | 1149 | 1907 | 1145 | 286 | 879 |
| 1498 | PEAT | 15 | - | 59 | 233 | 52 | 118 | 193 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 786 488 | ³ 510 904 | ¹ 188 097 | ⁴ 109 295 | 90 387 | 779 189 |
| | MINERAL INDUSTRIES | 740 308 | 497 588 | ¹ 128 825 | 109 071 | 87 398 | 733 341 |
| | INCLUDED IN MANUFACTURES | 46 180 | ³ 13 316 | ⁴ 59 272 | ⁴ 224 | ¹² 989 | 45 848 |
| 10 | METAL MINING | 76 805 | 36 868 | 108 240 | 5 433 | 6 152 | 51 821 |
| 1011 | IRON ORES | 55 598 | 21 062 | 74 045 | 2 615 | 3 483 | 33 160 |
| 11 | ANTHRACITE MINING | 120 540 | 131 082 | 236 511 | 15 111 | 22 813 | 164 489 |
| 1111 | ANTHRACITE | 110 527 | 123 097 | 220 973 | 12 651 | 19 712 | 142 198 |
| 1112 | ANTHRACITE MINING SERVICES | 10 013 | 7 985 | 15 538 | 2 460 | 3 101 | 22 291 |
| 12 | BITUMINOUS COAL MINING | 280 982 | 210 082 | 446 349 | 44 715 | 37 438 | 291 778 |
| 1211 | BITUMINOUS COAL | 275 840 | 206 899 | 438 865 | 43 874 | 36 873 | 286 384 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 5 142 | 3 183 | 7 484 | 841 | 565 | 5 394 |
| 13 | OIL AND GAS EXTRACTION | 59 836 | 28 731 | 71 240 | 17 327 | 6 577 | 59 217 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 50 413 | 22 386 | 56 512 | 16 287 | 5 191 | 45 906 |
| | CRUDE PETROLEUM | 24 886 | 9 410 | 30 062 | 4 234 | 3 624 | 27 655 |
| | NATURAL GAS | 25 527 | 12 976 | 26 450 | 12 053 | 1 567 | 18 251 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 6 805 | 4 298 | 10 257 | 846 | 1 062 | 11 168 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 2 369 | 940 | 3 123 | 186 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 248 325 | ³ 104 141 | ¹ 325 757 | ⁴ 26 709 | 17 407 | 211 884 |
| | MINERAL INDUSTRIES | 202 145 | 90 825 | 266 485 | 26 485 | 14 418 | 166 036 |
| | INCLUDED IN MANUFACTURES | 46 180 | ³ 13 316 | ⁴ 59 272 | ⁴ 224 | ¹² 989 | 45 848 |
| 1411 | DIMENSION STONE | 5 602 | 3 296 | 8 546 | 352 | 1 091 | 6 002 |
| | MINERAL INDUSTRY | 1 514 | 504 | 1 890 | 128 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 4 088 | 2 792 | 6 656 | 224 | (NA) | (NA) |
| | DIMENSION GRANITE | 500 | 408 | 874 | 34 | 33 | 288 |
| | INCLUDED IN MANUFACTURES | 496 | 373 | 835 | 34 | (NA) | (NA) |
| | DIMENSION STONE, N.E.C. | 4 826 | 2 800 | 7 346 | 280 | 1 016 | 5 421 |
| | MINERAL SUBINDUSTRY | 1 234 | 381 | 1 525 | 90 | 216 | 1 221 |
| | INCLUDED IN MANUFACTURES | 3 592 | 2 419 | 5 821 | 190 | 800 | 4 200 |
| 1421 | CRUSHED AND BROKEN STONE | 131 486 | ³ 60 014 | ¹ 176 718 | (NA) | 8 793 | 115 940 |
| | MINERAL INDUSTRY | 109 585 | 54 183 | 148 946 | ¹⁴ 782 | 7 561 | 89 266 |
| | INCLUDED IN MANUFACTURES | 21 941 | ³ 5 831 | ¹² 772 | (NA) | ¹ 232 | 26 674 |
| | CRUSHED AND BROKEN LIMESTONE | 88 589 | ³ 37 322 | ¹ 116 779 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY | 69 502 | 32 213 | 92 583 | 9 132 | 5 564 | 62 020 |
| | INCLUDED IN MANUFACTURES | 19 087 | ³ 5 109 | ¹² 24 196 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN GRANITE | 1 630 | 751 | 2 225 | 156 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C. | 41 267 | 21 941 | ¹ 57 714 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY | 38 413 | 21 219 | 54 138 | 5 494 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 2 854 | 722 | ¹³ 576 | (NA) | (NA) | (NA) |
| 1441 | SAND AND GRAVEL | 70 452 | ³ 26 393 | ¹ 89 141 | (NA) | 4 541 | 56 811 |
| | MINERAL INDUSTRY | 61 410 | 24 606 | 78 312 | 7 704 | 4 257 | 50 046 |
| | INCLUDED IN MANUFACTURES | 9 042 | ³ 1 787 | ¹⁰ 829 | (NA) | ¹² 84 | 6 765 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 48 419 | 19 135 | 61 442 | 6 112 | ³ 318 | ⁵⁴ 501 |
| | GLASS SAND SUBINDUSTRY | 5 326 | 2 936 | 7 039 | 1 223 | 356 | 3 580 |
| | MOLDING SAND SUBINDUSTRY | 5 676 | 1 683 | 7 126 | 233 | 583 | 4 965 |
| | INDUSTRIAL SAND, N.E.C., SUBINDUSTRY | 1 989 | 852 | 2 705 | 136 | (⁵) | (⁵) |
| | CLAY AND RELATED MINERALS | 14 754 | ³ 5 896 | ¹ 19 229 | (NA) | (NA) | (NA) |
| 1453 | FIRE CLAY | 7 779 | ³ 2 475 | ¹ 9 814 | (NA) | 646 | 6 622 |
| | MINERAL INDUSTRY | 3 512 | 1 720 | 4 792 | 440 | 457 | 3 603 |
| | INCLUDED IN MANUFACTURES | 4 267 | ³ 755 | ¹⁵ 022 | (NA) | ¹ 189 | 3 019 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 6 631 | ³ 3 363 | ¹ 9 105 | (NA) | ¹ 361 | 5 135 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 15 872 | 4 778 | 19 267 | 1 383 | (NA) | (NA) |
| | MISCELLANEOUS MINERALS, N.E.C. | 9 929 | ³ 3 563 | ¹ 12 472 | (NA) | ¹ 808 | 9 525 |
| 1492 | GYPSUM | 1 862 | (D) | ¹² 623 | (D) | 242 | 2 857 |
| 1498 | PEAT | 493 | 260 | 592 | 161 | 78 | 514 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Includes figures for separately reported central offices and related facilities in Massachusetts.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

⁵Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ³ of primary products by establishment classified in-- | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. | 497 588 | 213 811 | 147 322 | 63 510 | 72 945 | 109 071 | 13 689 | 95 382 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 36 868 | 21 086 | 10 660 | 1 272 | 3 850 | 5 433 | 2 147 | 3 286 | (x) | (x) | (x) | (x) |
| 1011 | IRON ORES | 21 062 | 319 469 | (3) | 19 | 1 574 | 2 615 | 1 791 | 824 | 45 004 | 474 424 | (4) | (4) |
| 11 | ANTHRACITE MINING | 131 082 | 35 874 | 63 919 | 22 230 | 9 059 | 15 111 | 939 | 14 172 | (x) | (x) | (x) | (x) |
| 1111 | ANTHRACITE. | 123 097 | 31 032 | 63 919 | 21 336 | 6 810 | 12 651 | 939 | 11 712 | 18 353 | 155 899 | - | - |
| 1112 | ANTHRACITE MINING SERVICES. | 7 985 | 4 842 | - | 894 | 2 249 | 2 460 | - | 2 460 | (x) | 15 538 | (x) | 87 |
| 12 | BITUMINOUS COAL MINING. . . . | 210 082 | 83 324 | 68 156 | 21 596 | 37 006 | 44 715 | 1 201 | 43 514 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 206 899 | 81 092 | 68 156 | 21 376 | 36 275 | 43 874 | 1 201 | 42 673 | 571 886 | 5262 593 | (5) | (5) |
| 1212 | BITUMINOUS COAL MINING SERVICES | 3 183 | 2 232 | - | 220 | 731 | 841 | - | 841 | (x) | 67 149 | (x) | (6) |
| 13 | OIL AND GAS EXTRACTION. . . . | 28 731 | 11 743 | 777 | 11 940 | 4 271 | 17 327 | 8 836 | 8 491 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 22 386 | 7 670 | - | 11 106 | 3 610 | 16 287 | 8 750 | 7 537 | (x) | 55 428 | (x) | 441 |
| | CRUDE PETROLEUM | 9 410 | 4 710 | - | 4 042 | 658 | 4 234 | 2 715 | 1 519 | 76 754 | 29 038 | 784 | 306 |
| | NATURAL GAS | 12 976 | 2 960 | - | 7 064 | 2 952 | 12 053 | 6 035 | 6 018 | 88 190 | 25 926 | 2 561 | 599 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 4 298 | 3 325 | - | 480 | 493 | 846 | 86 | 760 | (x) | 610 077 | (x) | (6) |
| 14 | NONMETALLIC MINERALS MINING . | 90 825 | 61 874 | 3 810 | 6 472 | 18 759 | 26 485 | 566 | 25 919 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . | 54 183 | 340 154 | (3) | 3 912 | 10 117 | 14 782 | 162 | 14 620 | 70 686 | 137 229 | 818 976 | 826 233 |
| | CRUSHED AND BROKEN LIME-STONE SUBINDUSTRY. . . . | 32 213 | 20 814 | 2 078 | 3 255 | 6 066 | 9 132 | 75 | 9 057 | 48 521 | 84 795 | 93 308 | 96 755 |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY . . . | 21 219 | 316 660 | (3) | 646 | 3 913 | 5 494 | 42 | 5 452 | 20 610 | 49 746 | 92 282 | 94 287 |
| 1441 | SAND AND GRAVEL | 24 606 | 16 641 | 360 | 2 036 | 5 569 | 7 704 | 231 | 7 473 | 51 540 | 1083 836 | 87 376 | (10) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY . . . | 19 135 | 13 466 | 360 | 1 764 | 3 545 | 6 112 | 227 | 5 885 | 49 131 | 5966 953 | 95 444 | (5) |
| | GLASS SAND SUBINDUSTRY. . . | 2 936 | 1 653 | - | 114 | 1 169 | 1 223 | - | 1 223 | 1 136 | 56 036 | 457 | (5) |
| | MOLDING SAND SUBINDUSTRY. . | 1 683 | 1 111 | - | 137 | 202 | 233 | 4 | 229 | 1 229 | 56 565 | 688 | (5) |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 4 778 | 33 542 | (3) | 1 | 1 235 | 1 383 | 1 | 1 382 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Figures for shipments of primary products by establishments classified in other industries are included with those for shipments of primary products by establishments classified in the specified industry. Quantity represents thousands of long tons.⁵Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁷Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁸Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁹Excludes figures for minerals produced and used in the same establishment.¹⁰Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 8.

TABLE 2C. **Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963**

| Ind. code | Industry group or industry and item | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|-------------------------------------|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 3 809 | 3 719 | 2 626 | 1 385 | 476 | 765 | 958 | 126 | 714 | 118 | 135 | 90 |
| | NUMBER OF EMPLOYEES..... | 257 732 | 257 547 | 17 291 | 8 345 | (D) | (D) | 35 701 | 15 916 | 14 169 | 5 616 | 2 432 | 175 |
| | VALUE ADDED IN MINING.....\$1,000.. | 1716 029 | 1718 462 | 182 274 | 74 427 | (D) | (D) | 502 428 | 219 104 | 214 604 | 68 720 | 33 760 | (3) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 23 | 18 | 1 | 1 | - | - | 13 | 10 | 3 | - | 4 | 5 |
| | NUMBER OF EMPLOYEES..... | 4 54 921 | (D) | (D) | (D) | - | - | (D) | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 576 805 | (D) | (D) | (D) | - | - | (D) | (D) | (D) | - | (D) | (D) |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 13 | 10 | - | - | - | - | 8 | 7 | 1 | - | 2 | 3 |
| | NUMBER OF EMPLOYEES..... | 3 380 | 3 378 | - | - | - | - | (D) | 2 604 | (D) | - | (D) | 2 |
| | VALUE ADDED IN MINING.....\$1,000.. | 55 598 | 55 586 | - | - | - | - | (D) | 37 893 | (D) | - | (D) | 12 |
| 11 | ANTHRACITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 026 | 1 021 | 869 | 748 | 82 | 39 | 73 | 10 | 14 | 49 | 79 | 5 |
| | NUMBER OF EMPLOYEES..... | 610 692 | 610 682 | (D) | 2 509 | (D) | 646 | 4 901 | 672 | 738 | 3 491 | (D) | 10 |
| | VALUE ADDED IN MINING.....\$1,000.. | 110 527 | 110 545 | (D) | 23 048 | (D) | 7 356 | 53 137 | 3 674 | 9 574 | 39 889 | (D) | (3) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 174 | 1 166 | 908 | 630 | 234 | 44 | 228 | 98 | 88 | 42 | 30 | 8 |
| | NUMBER OF EMPLOYEES..... | 23 957 | 23 935 | 7 765 | 5 554 | 1 838 | 373 | 14 639 | 11 311 | 1 972 | 1 356 | 503 | 22 |
| | VALUE ADDED IN MINING.....\$1,000.. | 275 840 | 276 920 | 77 354 | 48 564 | 23 517 | 5 273 | 193 137 | 149 986 | 26 706 | 16 445 | 6 429 | (3) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 751 | 687 | 682 | - | - | 682 | - | - | - | - | 5 | 64 |
| | NUMBER OF EMPLOYEES..... | 4 475 | (D) | (D) | - | - | (D) | - | - | - | - | 15 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 50 572 | (D) | (D) | - | - | (D) | - | - | - | - | 159 | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 835 | 827 | 166 | 6 | 160 | - | 644 | 8 | 609 | 27 | 17 | 8 |
| | NUMBER OF EMPLOYEES..... | 713 687 | 713 651 | (D) | (D) | 797 | - | (D) | (D) | (D) | 769 | (D) | 31 |
| | VALUE ADDED IN MINING.....\$1,000.. | 202 285 | 202 148 | (D) | (D) | 7 346 | - | (D) | (D) | (D) | 12 386 | (D) | 137 |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 276 | 274 | 10 | 1 | 9 | - | 256 | 2 | 252 | 2 | 8 | 2 |
| | NUMBER OF EMPLOYEES..... | 6 985 | (D) | (D) | (D) | (D) | - | 6 492 | (D) | 6 359 | (D) | 294 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 109 545 | (D) | (D) | (D) | (D) | - | 104 245 | (D) | 102 476 | (D) | 4 378 | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 418 | 414 | 63 | - | 63 | - | 344 | - | 319 | 24 | 7 | 4 |
| | NUMBER OF EMPLOYEES..... | 4 403 | 4 395 | 210 | - | 210 | - | 3 956 | - | 3 492 | 464 | 136 | 8 |
| | VALUE ADDED IN MINING.....\$1,000.. | 61 410 | 61 417 | 2 153 | - | 2 153 | - | 57 032 | - | 48 665 | 8 367 | 1 906 | 7 |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 55 | 55 | 40 | 5 | 35 | - | 15 | - | 15 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 433 | 433 | 250 | (D) | (D) | - | 183 | - | 183 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 980 | 4 980 | 3 455 | (D) | (D) | - | 1 515 | - | 1 515 | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 8 | 8 | 2 | - | 2 | - | 4 | 3 | 1 | - | 2 | - |
| | NUMBER OF EMPLOYEES..... | 613 | 613 | (D) | - | (D) | - | (D) | (D) | (D) | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 15 872 | 15 872 | (D) | - | (D) | - | (D) | (D) | (D) | - | (D) | - |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 31 | 9 | - | 9 | - | 22 | 3 | 18 | 1 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 601 | (D) | 29 | - | 29 | - | (D) | 166 | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 562 | (D) | 266 | - | 266 | - | (D) | 3 685 | (D) | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Includes data for one metal mining service establishment in New Jersey and three nonmetallic mining service establishments in New York.

²Includes figures for separately reported central offices and related facilities in Pennsylvania which were not distributed by type of operation.

³Not shown since the cost of supplies, purchased fuels and electric energy, contract work and purchased machinery installed exceeds capital expenditure.

⁴Includes figures for separately reported central offices and related facilities in Massachusetts.

⁵Includes data for one metal mining service establishment in New Jersey.

⁶Includes figures for separately reported central offices and related facilities in New York.

⁷Includes data for three nonmetallic mining service establishments in New York.

TABLE 3. **General Statistics by Selected Industry Groups, for Counties: 1963 and 1958**

(For county statistics, see table 3 of the individual State reports)

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

[illegible]

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

²Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

EAST NORTH CENTRAL

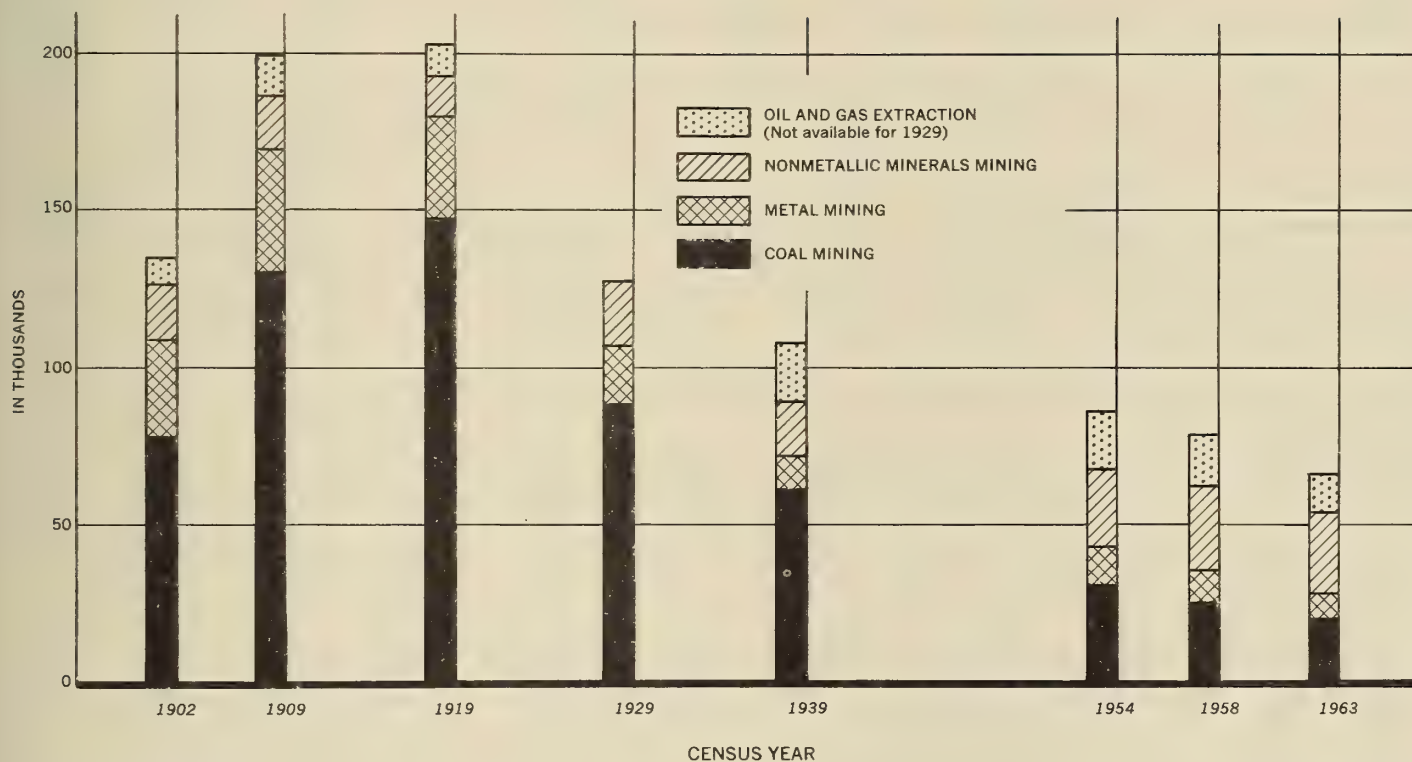


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|--------------------------------|--|--|---------------------------------------|-------------------------------|--|--|
| | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | |
| | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 4 753 | 570 | 62 234 | 373 643 | 50 762 | 101 801 | 288 514 | 1 042 467 | |
| 1953. | 4 313 | 659 | 74 732 | 335 393 | 60 937 | 114 357 | 292 921 | 936 363 | |
| 1954. | 4 636 | 691 | 81 411 | 349 426 | 69 142 | 131 846 | 280 043 | 813 435 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 5 145 | 617 | 66 539 | 395 158 | 54 932 | 110 003 | 308 435 | 1 106 078 | |
| 1953. | 4 662 | 712 | 78 967 | 404 040 | 64 974 | 122 056 | 310 336 | 994 314 | |
| 1954. ¹ | 4 912 | 743 | 86 251 | 367 576 | 73 815 | 141 163 | 297 253 | 353 641 | |
| 1939 ² | 3 939 | (NA) | 107 930 | 142 184 | 93 034 | 161 491 | 119 026 | 316 939 | |
| 1919 ⁴ | 3 783 | (NA) | 203 031 | 265 590 | 190 533 | (NA) | 238 335 | 391 930 | |
| 1909 ⁴ | 4 406 | (NA) | 199 595 | 128 779 | 191 328 | (NA) | 119 249 | 189 479 | |
| 1902 ⁵ | 17 212 | (NA) | 135 637 | 39 319 | 6 127 904 | (NA) | 32 039 | 142 014 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 2 909 | 492 | 54 106 | 332 163 | 44 817 | 90 767 | 261 555 | 774 093 | |
| 1953. | 2 730 | 566 | 62 647 | 329 367 | 52 433 | 99 202 | 260 422 | 688 790 | |
| 1954 ¹ | 2 393 | 737 | 63 259 | 296 206 | 59 710 | 114 765 | 246 326 | 591 672 | |
| 1939 ⁷ | 2 762 | (NA) | 39 527 | 113 482 | 32 867 | 134 366 | 97 367 | 190 268 | |
| 1929 ⁸ | 2 044 | (NA) | 127 970 | 179 352 | 120 944 | (NA) | 161 662 | 285 717 | |
| 1919 ⁹ | 2 032 | (NA) | 192 969 | 252 434 | 182 255 | (NA) | 223 238 | 323 041 | |
| 1909 ⁹ | 2 229 | (NA) | 187 002 | 120 517 | 180 831 | (NA) | 112 650 | 157 369 | |
| 1902 ⁹ | 3 309 | (NA) | 127 130 | 83 387 | 6 120 735 | (NA) | 77 097 | 113 905 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ¹⁰ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 276 176 | 153 115 | 108 065 | 111 602 | 1 437 774 | 203 651 | 18 653 | 367 | 5 410 |
| 1958. | 245 335 | 130 043 | 66 043 | 73 360 | 1 324 803 | 126 891 | 13 134 | 293 | (NA) |
| 1954. | 193 264 | 160 623 | 31 106 | 99 520 | 1 094 500 | 158 443 | 16 313 | 236 | 4 274 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ¹² 292 635 | 153 255 | ¹² 108 174 | ¹³ 112 243 | 1 567 987 | ¹³ 204 453 | ¹³ 18 653 | 367 | ¹³ 5 410 |
| 1953. | ¹² 256 369 | 130 069 | ¹² 66 267 | ¹³ 74 453 | 1 394 462 | ¹³ 127 510 | ¹³ 13 317 | 232 | (NA) |
| 1954 ¹ | ¹² 207 177 | ¹³ 60 659 | ¹² 31 202 | ¹³ 100 203 | 1 143 779 | ¹³ 159 108 | ¹³ 16 597 | 225 | 4 324 |
| 1939 ² | 56 604 | (NA) | 28 744 | (NA) | 402 237 | (NA) | 13 071 | 184 | 1 953 |
| 1919 ⁴ | 30 229 | 3 320 | 5 004 | (NA) | 430 433 | (NA) | ¹⁴ 47 956 | 252 | 1 155 |
| 1909 ⁴ | 36 039 | 5 657 | 6 308 | (NA) | 237 533 | (NA) | (NA) | (NA) | 922 |
| 1902 ⁵ | 26 304 | (NA) | 5 009 | (NA) | 173 327 | (NA) | (NA) | (NA) | 657 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ¹² 237 181 | 60 613 | ¹² 62 300 | ¹³ 92 646 | 1 074 719 | ¹³ 155 119 | ¹³ 14 353 | 320 | ¹³ 4 355 |
| 1953. | ¹² 262 110 | (15) | ¹² 25 329 | ¹³ 53 933 | 949 247 | ¹³ 30 920 | ¹³ 11 208 | 214 | (NA) |
| 1954 ¹ | ¹² 214 597 | (15) | ¹² 25 657 | ¹³ 67 512 | 309 633 | ¹³ 89 800 | ¹³ 10 156 | 170 | 3 476 |
| 1939 ⁷ | 49 603 | (NA) | 1 173 | (NA) | 241 044 | (NA) | 14 595 | 176 | 1 624 |
| 1929 ⁸ | 64 052 | (NA) | 693 | 15 990 | 350 462 | (NA) | 24 451 | 202 | 1 320 |
| 1919 ⁹ | 71 987 | 34 | 1 019 | (NA) | 401 131 | (NA) | ¹⁴ 45 464 | 249 | 953 |
| 1909 ⁹ | 27 333 | 245 | 344 | (NA) | 135 791 | (NA) | (NA) | (NA) | 677 |
| 1902 ⁹ | 17 496 | (NA) | 203 | (NA) | 136 604 | (NA) | (NA) | (NA) | 427 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes figures for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries.

³Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes figures for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. In 1929, there were 297 such sand and gravel establishments, with products valued at \$26,686 thousand, and 31 such stone operations (the value of products of 29 of these stone operations was \$4,612 thousand). See also footnote 8.

⁵Includes figures for lime plants producing lime valued at \$2,637 thousand and for 2 cement plants. Excludes data for sand and gravel and clay mining operations and stone quarries at 33 cement plants which produced cement valued at \$4,904 thousand.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes figures for 6 nonproducing establishments. See also footnote 2.

⁸Excludes figures for common clay and shale operations. In 1939, there were 159 such mines with products valued at \$2,137 thousand.

⁹Except for number of establishments, includes data for one oil and gas extraction operation in Michigan. Also, includes for 1919 data for 5 nonproducing oil and gas extraction operations in Ohio, and for 7 such operations in 1909. For 1919 and 1909, see also footnote 4. For 1902, see also footnote 5.

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the approximate magnitude of this duplication as indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹¹Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹³Excludes figures for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments and, in 1958, excludes figures for dimension stone operations in manufactures.

¹⁴Excludes purchased electric energy. For "All operations" in 1939 and for "Excluding oil and gas extraction industries" in 1929, the quantity of purchased electric energy amounted to only 3 percent of the total kwh. equivalent of energy used.

¹⁵The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 5 145 | 617 | 66 599 | 395 159 | 54 992 | 110 003 | 308 435 |
| | MINERAL INDUSTRIES | 4 753 | 570 | 62 234 | 373 643 | 50 762 | 101 801 | 288 514 |
| | INCLUDED IN MANUFACTURES | 392 | 47 | 14 355 | 121 515 | 14 120 | 8 202 | 19 921 |
| 10 | METAL MINING | 49 | 34 | 7 646 | 51 991 | 6 005 | 11 611 | 35 871 |
| 1011 | IRON ORES. | 26 | 20 | 4 736 | 35 629 | 3 554 | 6 655 | 22 954 |
| 102 | COPPER, LEAD, AND ZINC ORES. | 20 | 13 | 2 853 | 15 982 | 2 412 | 4 870 | 12 702 |
| 103 | | | | | | | | |
| 12 | BITUMINOUS COAL MINING | 575 | 170 | 20 446 | 136 511 | 17 705 | 34 531 | 115 796 |
| 1211 | BITUMINOUS COAL. | 554 | 167 | 20 263 | 135 595 | 17 529 | 34 210 | 114 906 |
| 1213 | BITUMINOUS COAL MINING SERVICES. | 21 | 3 | 183 | 916 | 176 | 321 | 890 |
| 13 | OIL AND GAS EXTRACTION | 2 236 | 125 | 12 483 | 62 990 | 10 065 | 19 236 | 46 880 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 1 675 | 78 | 7 975 | 42 621 | 5 993 | 11 483 | 28 541 |
| | CRUDE PETROLEUM. | 1 544 | 75 | 7 560 | 40 616 | 5 684 | 10 906 | 27 049 |
| | NATURAL GAS. | 131 | 3 | 415 | 2 005 | 309 | 577 | 1 492 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 327 | 34 | 3 043 | 14 252 | 2 844 | 5 357 | 13 406 |
| 14 | NONMETALLIC MINERALS MINING. | 2 285 | 298 | 26 014 | 143 666 | 21 107 | 44 625 | 109 888 |
| | MINERAL INDUSTRIES | 1 893 | 241 | 21 659 | 122 151 | 16 987 | 36 423 | 89 967 |
| | INCLUDED IN MANUFACTURES | 392 | 47 | 14 355 | 121 515 | 14 120 | 8 202 | 19 921 |
| 1411 | DIMENSION STONE. | 111 | 22 | 2 385 | 11 429 | 2 101 | 4 198 | 9 591 |
| | MINERAL INDUSTRY | 60 | 5 | 362 | 1 576 | 313 | 626 | 1 332 |
| | INCLUDED IN MANUFACTURES | 51 | 17 | 2 023 | 9 853 | 1 788 | 3 572 | 8 259 |
| | DIMENSION LIMESTONE. | 54 | 14 | 1 508 | 7 711 | 1 324 | 2 715 | 6 515 |
| | MINERAL SUBINDUSTRY. | 23 | 3 | 164 | 830 | 141 | 313 | 724 |
| | INCLUDED IN MANUFACTURES | 31 | 11 | 1 344 | 6 881 | 1 183 | 2 402 | 5 791 |
| 1421 | CRUSHED AND BROKEN STONE | 523 | 125 | 10 243 | 57 400 | 8 589 | 18 471 | 44 985 |
| | MINERAL INDUSTRY | 466 | 110 | 9 305 | 52 224 | 7 651 | 16 594 | 39 809 |
| | INCLUDED IN MANUFACTURES | 57 | 15 | 1938 | 15 176 | 1938 | 1 877 | 5 176 |
| | CRUSHED AND BROKEN LIMESTONE (MINERAL SUBINDUSTRY) | 443 | 107 | 8 747 | 48 940 | 7 290 | 15 897 | 38 061 |
| | CRUSHED AND BROKEN STONE, N.E.C. (MINERAL SUBINDUSTRY) | 20 | 3 | 552 | 3 268 | 358 | 691 | 1 736 |
| 1441 | SAND AND GRAVEL. | 1 345 | 106 | 9 496 | 52 346 | 7 592 | 16 069 | 40 658 |
| | MINERAL INDUSTRY | 1 232 | 99 | 9 027 | 50 268 | 7 123 | 15 129 | 38 580 |
| | INCLUDED IN MANUFACTURES | 113 | 7 | 1469 | 12 078 | 1469 | 940 | 2 078 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 1 175 | 87 | 7 931 | 43 415 | 6 258 | 13 231 | 33 595 |
| | GLASS SAND SUBINDUSTRY | 8 | 5 | 252 | 1 531 | 213 | 459 | 1 283 |
| | MOLDING SAND SUBINDUSTRY | 36 | 3 | 335 | 2 012 | 256 | 552 | 1 392 |
| | INDUSTRIAL SAND, N.E.C., SUBINDUSTRY | 13 | 4 | 509 | 3 310 | 396 | 887 | 2 310 |
| 145 | CLAY AND RELATED MINERALS. | 213 | 18 | 1 427 | 7 316 | 1 354 | 2 741 | 6 713 |
| | MINERAL INDUSTRIES | 48 | 13 | 628 | 3 569 | 555 | 1 180 | 2 966 |
| | INCLUDED IN MANUFACTURES | 165 | 5 | 1799 | 13 747 | 1799 | 1 561 | 3 747 |
| 1453 | FIRE CLAY. | 79 | 12 | 791 | 4 236 | 736 | 1 466 | 3 743 |
| | MINERAL INDUSTRY | 36 | 7 | 369 | 2 069 | 314 | 623 | 1 576 |
| | INCLUDED IN MANUFACTURES | 43 | 5 | 1422 | 12 167 | 1422 | 843 | 2 167 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C.. MINERAL INDUSTRY | 134 | 6 | 636 | 3 080 | 619 | 1 275 | 2 970 |
| | INCLUDED IN MANUFACTURES | 12 | 6 | 259 | 1 500 | 241 | 557 | 1 390 |
| | | 122 | - | 1377 | 11 580 | 1377 | 718 | 1 580 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 15 | 7 | 1 775 | 12 069 | 872 | 1 910 | 5 356 |
| 1481 | NONMETALLIC MINERALS (EXCEPT FUELS) SERVICES. | 18 | - | 69 | 265 | 61 | 109 | 232 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 60 | 10 | 620 | 2 841 | 538 | 1 127 | 2 353 |
| | MINERAL INDUSTRIES | 54 | 7 | 494 | 2 180 | 412 | 875 | 1 692 |
| | INCLUDED IN MANUFACTURES | 6 | 3 | 1126 | 1661 | 1126 | 252 | 661 |
| 1492 | GYPSUM | 9 | 5 | 261 | 1 405 | 244 | 477 | 1 270 |
| | MINERAL INDUSTRY | 3 | 2 | 135 | 744 | 118 | 225 | 609 |
| | INCLUDED IN MANUFACTURES | 6 | 3 | 1126 | 1661 | 1126 | 252 | 661 |
| 1498 | PEAT | 43 | 3 | 255 | 850 | 231 | 487 | 754 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 106 078 | ² 666 362 | ¹ 567 987 | ³ 204 453 | 78 967 | 994 314 |
| | MINERAL INDUSTRIES | 1 042 467 | 648 958 | 1 487 774 | 203 651 | 74 732 | 936 363 |
| | INCLUDED IN MANUFACTURES | 63 611 | ² 17 404 | ¹ 80 213 | ³ 802 | ¹ 4 235 | 57 951 |
| 10 | METAL MINING | 109 299 | 125 842 | 177 841 | 57 300 | 10 026 | 87 682 |
| 1011 | IRON ORES. | 87 718 | 92 130 | 125 638 | 54 210 | (NA) | (NA) |
| 102 | COPPER, LEAD, AND ZINC ORES. | 21 046 | 32 311 | 50 271 | 3 086 | 2 807 | 17 664 |
| 103 | | | | | | | |
| 12 | BITUMINOUS COAL MINING | 310 365 | 181 860 | 436 317 | 55 908 | 25 301 | 284 145 |
| 1211 | BITUMINOUS COAL. | 307 782 | 180 805 | 433 097 | 55 490 | 25 201 | 283 283 |
| 1213 | BITUMINOUS COAL MINING SERVICES. | 2 583 | 1 055 | 3 220 | 418 | 100 | 862 |
| 13 | OIL AND GAS EXTRACTION | 331 985 | 213 617 | 493 268 | 52 334 | 16 320 | 305 524 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 277 357 | 96 560 | 330 230 | 43 687 | 11 319 | 256 394 |
| | CRUDE PETROLEUM. | 267 115 | 90 546 | 319 134 | 38 527 | 10 685 | 251 417 |
| | NATURAL GAS. | 10 242 | 6 014 | 11 096 | 5 160 | 633 | 4 977 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 31 469 | 15 569 | 43 236 | 3 802 | 3 719 | 27 270 |
| 14 | NONMETALLIC MINERALS MINING. | 354 429 | ² 145 043 | ¹ 460 561 | ³ 38 911 | 27 320 | 316 963 |
| | MINERAL INDUSTRIES | 290 818 | 127 630 | 380 348 | ³ 107 | 23 035 | 259 012 |
| | INCLUDED IN MANUFACTURES | 63 611 | ² 17 404 | ¹ 80 213 | ³ 802 | ¹ 4 235 | 57 951 |
| 1411 | DIMENSION STONE. | 16 766 | 7 471 | 23 244 | 933 | 2 573 | 15 947 |
| | MINERAL INDUSTRY | 3 078 | 878 | 3 765 | 191 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 13 688 | 6 593 | 19 479 | 802 | (NA) | (NA) |
| | DIMENSION LIMESTONE. | 11 010 | 5 638 | 15 891 | 757 | 1 940 | 12 508 |
| | MINERAL SUBINDUSTRY. | 1 918 | 418 | 2 214 | 122 | 377 | 2 754 |
| | INCLUDED IN MANUFACTURES | 9 092 | 5 220 | 13 677 | 635 | 1 563 | 9 754 |
| 1421 | CRUSHED AND BROKEN STONE | 150 052 | ² 66 140 | ¹ 99 453 | (NA) | 10 994 | 134 929 |
| | MINERAL INDUSTRY | 130 419 | 60 559 | 174 239 | 16 739 | 10 066 | 114 249 |
| | INCLUDED IN MANUFACTURES | 19 633 | 25 581 | ¹ 25 214 | (NA) | ¹ 928 | 20 680 |
| | CRUSHED AND BROKEN LIMESTONE (MINERAL SUBINDUSTRY) | 121 408 | 53 667 | 159 590 | 15 485 | 9 111 | 106 410 |
| | CRUSHED AND BROKEN STONE, N.E.C. (MINERAL SUBINDUSTRY) | 3 981 | 6 864 | 14 599 | 1 247 | 365 | 7 357 |
| 1441 | SAND AND GRAVEL. | 135 498 | ² 53 298 | ¹ 171 542 | (NA) | 10 042 | 127 460 |
| | MINERAL INDUSTRY | 123 570 | 51 947 | 153 263 | 17 254 | 9 700 | 116 602 |
| | INCLUDED IN MANUFACTURES | 11 928 | ² 1 351 | ¹ 13 279 | (NA) | ¹ 342 | 10 858 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 104 280 | 45 222 | 134 583 | 14 919 | ⁴ 887 | ⁴ 105 397 |
| | GLASS SAND SUBINDUSTRY | 4 944 | 2 321 | 6 078 | 1 187 | 368 | 6 018 |
| | MOLDING SAND SUBINDUSTRY | 5 178 | 1 672 | 6 396 | 454 | 445 | 5 187 |
| | INDUSTRIAL SAND, N.E.C., SUBINDUSTRY | 9 168 | 2 732 | 11 206 | 695 | (4) | (4) |
| 145 | CLAY AND RELATED MINERALS. | 20 460 | ² 7 774 | ¹ 27 492 | (NA) | 1 317 | 15 634 |
| | MINERAL INDUSTRIES | 7 142 | 4 275 | 10 675 | 742 | 512 | 5 712 |
| | INCLUDED IN MANUFACTURES | 13 318 | ² 3 499 | ¹ 16 817 | (NA) | ¹ 805 | 9 922 |
| 1453 | FIRE CLAY. | 10 362 | ² 3 570 | ¹ 13 460 | (NA) | 650 | 7 428 |
| | MINERAL INDUSTRY | 3 767 | 1 554 | 4 849 | 472 | 292 | 3 866 |
| | INCLUDED IN MANUFACTURES | 6 595 | ² 2 016 | ¹ 8 611 | (NA) | ¹ 368 | 3 562 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. MINERAL INDUSTRY | 10 098 | ² 4 204 | ¹ 14 032 | (NA) | 667 | 8 206 |
| | INCLUDED IN MANUFACTURES | 3 375 | 2 721 | 5 926 | 270 | 230 | 1 846 |
| | | 6 723 | ² 1 483 | ¹ 8 206 | (NA) | ¹ 437 | 6 360 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 18 297 | 6 869 | 22 818 | 2 348 | (NA) | (NA) |
| 1481 | NONMETALLIC MINERALS (EXCEPT FUELS) SERVICES. | 517 | 306 | 695 | 128 | 71 | 632 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 12 839 | ² 3 185 | ¹ 15 317 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRIES | 7 795 | 2 805 | 9 893 | 707 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 5 044 | ² 380 | ¹ 5 424 | (NA) | (NA) | (NA) |
| 1492 | GYPSUM | 3 319 | (D) | ¹ 9 188 | (NA) | ¹ 175 | 4 031 |
| | MINERAL INDUSTRY | 3 275 | 832 | 3 764 | (D) | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 5 044 | ² 380 | ¹ 5 424 | (NA) | (NA) | (NA) |
| 1498 | PEAT | 3 683 | 1 659 | 5 009 | 333 | (NA) | (NA) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operation, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁴Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ¹ of primary products by establishment classified in-- | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES | 648 958 | 276 176 | 153 115 | 108 065 | 111 602 | 203 651 | 30 718 | 172 933 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING | 125 842 | 46 261 | 26 209 | 44 671 | 9 701 | 57 300 | 7 411 | 49 889 | (X) | (X) | (X) | (X) |
| 1011 | IRON ORES | 92 130 | 340 747 | (3) | 43 626 | 7 757 | 54 210 | 5 419 | 48 791 | 416 908 | (D) | - | - |
| 102 | COPPER, LEAD, AND ZINC ORES | 32 311 | 330 342 | (3) | 1 031 | 938 | 3 086 | 1 992 | 1 094 | 49 924 | 35 457 | - | (D) |
| 103 | | | | | | | | | | | | | |
| 12 | BITUMINOUS COAL MINING | 181 960 | 88 728 | 32 731 | 6 803 | 53 398 | 55 903 | 1 410 | 54 498 | (X) | (X) | (X) | (X) |
| 1211 | BITUMINOUS COAL | 180 805 | 88 332 | 32 731 | 6 747 | 52 995 | 55 490 | 1 410 | 54 080 | 5105 926 | 5400 935 | (5) | (5) |
| 13 | OIL AND GAS EXTRACTION | 213 617 | 55 504 | 92 637 | 45 974 | 19 602 | 52 334 | 20 892 | 31 452 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 96 560 | 40 172 | - | 40 161 | 16 227 | 43 687 | 20 557 | 23 130 | (X) | 325 524 | (X) | 3 035 |
| | CRUDE PETROLEUM | 90 546 | 38 240 | - | 36 739 | 15 567 | 38 527 | 19 019 | 19 508 | 6105 254 | 307 221 | 61 538 | 4 653 |
| | NATURAL GAS | 6 014 | 1 932 | - | 3 422 | 660 | 5 160 | 1 538 | 3 622 | 736 224 | 8 986 | 734 332 | 7 699 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 15 569 | 11 395 | - | 1 674 | 2 510 | 3 902 | 321 | 3 481 | (X) | 841 152 | (X) | (8) |
| 14 | NONMETALLIC MINERALS MINING | 127 639 | 85 493 | 1 538 | 10 717 | 29 901 | 38 109 | 1 015 | 37 094 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE | 60 559 | 42 768 | 660 | 4 021 | 13 110 | 16 739 | 247 | 16 492 | 116 245 | 161 911 | 923 916 | 927 457 |
| | CRUSHED AND BROKEN LIME-STONE SUBINDUSTRY | 53 667 | 36 901 | 660 | 3 956 | 12 150 | 15 485 | 210 | 15 275 | 113 923 | 147 996 | 923 443 | 926 479 |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY | 6 864 | 5 849 | - | 65 | 950 | 1 247 | 37 | 1 210 | 1 799 | 13 723 | (D) | (D) |
| 1441 | SAND AND GRAVEL | 51 947 | 32 194 | 627 | 5 477 | 13 649 | 17 254 | 252 | 17 002 | 138 717 | 10161 050 | 98 501 | (10) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 45 224 | 27 225 | 627 | 5 342 | 12 030 | 14 919 | 224 | 14 695 | 128 132 | 10137 740 | 119 114 | (10) |
| | GLASS SAND SUBINDUSTRY | 2 319 | 1 495 | - | - | 824 | 1 187 | - | 1 187 | 1 589 | 57 093 | 877 | (5) |
| | MOLDING SAND SUBINDUSTRY | 1 672 | 1 191 | - | 112 | 369 | 454 | 3 | 451 | 2 393 | 510 713 | 2 658 | (5) |
| | INDUSTRIAL SAND, N.E.C., SUBINDUSTRY | 2 732 | 2 233 | - | 23 | 426 | 694 | 25 | 669 | 1 508 | 56 131 | 20 | (5) |
| 145 | CLAY AND RELATED MINERALS | 4 275 | 33 045 | (3) | 215 | 1 015 | 742 | 63 | 679 | (X) | (X) | (X) | (X) |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 2 721 | 2 147 | - | 35 | 539 | 270 | 54 | 216 | 1 295 | 5 826 | 96 338 | 98 253 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 6 869 | 34 917 | (3) | 478 | 1 474 | 2 348 | 445 | 1 903 | (X) | (X) | (X) | (X) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 2 805 | 1 947 | - | 367 | 491 | 707 | 7 | 700 | (X) | (X) | (X) | (X) |
| 1498 | PEAT | 1 659 | 1 075 | - | 312 | 272 | 333 | 3 | 330 | 12322 | 5 007 | - | - |

Note: See appendix A for an explanation of terms.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Represents crude ore mined in the specified industries. For iron ores, represents thousands of long tons.

⁵Figures for shipments of primary products of establishments classified in other industries or subindustries are included with those for establishments classified in the specified industry or subindustry.

⁶Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁷Represents millions of cubic feet of natural gas shipped.

⁸Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

¹⁰Figures for the value of shipments of primary products by establishments classified in other industries or subindustries are included with those for the value of shipments of primary products by establishments classified in the specified industry or subindustry. See also footnote 9.

¹¹Excludes figures for minerals produced and used in the same establishment.

¹²Represents production.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Separately operated preparation plants | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 4 160 | 3 921 | 2 159 | 194 | 469 | 1 496 | 1 720 | 108 | 1 517 | 95 | 42 | 239 | |
| | NUMBER OF EMPLOYEES..... | 54 139 | 53 742 | 15 396 | 4 808 | 2 819 | 7 769 | 37 076 | 12 102 | 23 075 | 1 899 | 1 270 | 397 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 997 812 | 998 502 | 389 101 | 61 623 | 39 905 | 287 573 | 580 166 | 145 768 | 404 124 | 30 274 | 29 235 | (²) | |
| 10 | METAL MINING | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 47 | 41 | 23 | 22 | 1 | - | 10 | 5 | 5 | - | 8 | 6 | |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | (D) | - | 2 981 | (D) | (D) | - | (D) | (D) | |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | (D) | - | 50 502 | (D) | (D) | - | (D) | (D) | |
| 101 | IRON ORES | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 26 | 23 | 17 | 16 | 1 | - | 4 | 1 | 3 | - | 2 | 1 | |
| | NUMBER OF EMPLOYEES..... | 3 912 | 3 780 | 2 322 | (D) | (D) | - | (D) | (D) | (D) | - | (D) | 132 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 87 718 | 86 475 | 41 883 | (D) | (D) | - | (D) | (D) | (D) | - | (D) | 1 243 | |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 554 | 547 | 318 | 163 | 124 | 31 | 221 | 83 | 115 | 23 | 8 | 7 | |
| | NUMBER OF EMPLOYEES..... | 19 496 | 19 467 | (D) | 1 735 | (D) | (D) | 15 474 | 8 700 | (D) | (D) | (D) | 29 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 307 782 | 306 231 | (D) | 10 782 | (D) | (D) | 255 171 | 105 687 | (D) | (D) | (D) | 1 551 | |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 875 | 1 860 | 354 | 9 | 344 | 1 | 1 489 | 20 | 1 397 | 72 | 17 | 15 | |
| | NUMBER OF EMPLOYEES..... | 20 151 | 20 108 | 1 335 | (D) | 1 294 | (D) | 18 621 | (D) | 16 179 | (D) | 152 | 43 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 290 301 | 290 468 | 13 713 | (D) | 13 339 | (D) | 274 493 | (D) | 238 402 | (D) | 2 262 | (²) | |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 466 | 462 | 17 | - | 17 | - | 438 | 48 | 426 | 2 | 7 | 4 | |
| | NUMBER OF EMPLOYEES..... | 8 929 | 8 918 | (D) | - | (D) | - | 8 703 | (D) | 8 128 | (D) | (D) | 11 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 130 223 | 130 236 | (D) | - | (D) | - | 127 948 | (D) | 121 046 | (D) | (D) | (²) | |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 232 | 1 228 | 221 | - | 220 | 1 | 998 | - | 929 | 69 | 9 | 4 | |
| | NUMBER OF EMPLOYEES..... | 8 761 | 8 737 | 586 | - | (D) | (D) | (D) | - | 7 362 | (D) | (D) | 24 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 123 572 | 123 728 | 6 298 | - | (D) | (D) | (D) | - | 107 673 | (D) | (D) | 156 | |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 48 | 48 | 28 | 2 | 26 | - | 20 | 1 | 19 | - | - | - | |
| | NUMBER OF EMPLOYEES..... | 627 | 627 | 170 | (D) | (D) | - | 457 | (D) | (D) | - | - | - | |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 142 | 7 142 | 1 602 | (D) | (D) | - | 5 540 | (D) | (D) | - | - | - | |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 15 | 15 | 7 | 6 | 1 | - | 7 | 7 | - | - | 1 | - | |
| | NUMBER OF EMPLOYEES..... | 1 018 | 1 018 | (D) | (D) | (D) | - | (D) | (D) | - | - | (D) | - | |
| | VALUE ADDED IN MINING.....\$1,000.. | 18 297 | 18 297 | (D) | (D) | (D) | - | (D) | (D) | - | - | (D) | - | |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 54 | 52 | 26 | 1 | 25 | - | 26 | 2 | 23 | 1 | - | - | |
| | NUMBER OF EMPLOYEES..... | 468 | (D) | (D) | (D) | (D) | - | 355 | (D) | (D) | (D) | - | (D) | |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 795 | (D) | (D) | (D) | (D) | - | 6 268 | (D) | (D) | (D) | - | (D) | |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

(For county statistics, see table 3 of the individual State reports)

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|------|-----|------|-------|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| EAST NORTH CENTRAL DIVISION: TOTAL | 5 145 | 4 753 | 392 | 26 | 7 | 13 | - | - | - | 2 | 1 | - | - | 554 | 21 | 1 675 | 9 | 552 | 60 | 51 | 466 | 57 | 1 232 | 113 | 48 | 165 | 15 | 18 | 54 | 6 |
| NO EMPLOYEES | 939 | 926 | 13 | - | - | 1 | - | - | - | - | - | - | - | 45 | 1 | 562 | 1 | 64 | 9 | - | 57 | - | 170 | 8 | 4 | 5 | 1 | - | 11 | - |
| 1-4 EMPLOYEES | 2 224 | 1 988 | 236 | 3 | - | 2 | - | - | - | 1 | - | - | - | 170 | 11 | 812 | 1 | 250 | 30 | 21 | 97 | 22 | 549 | 76 | 15 | 117 | 7 | 13 | 27 | - |
| 5-9 EMPLOYEES | 733 | 680 | 53 | 2 | - | 1 | - | - | - | - | - | - | - | 76 | 3 | 149 | 1 | 99 | 8 | 8 | 71 | 10 | 250 | 14 | 11 | 19 | - | 4 | 5 | 2 |
| 10-19 EMPLOYEES | 632 | 589 | 43 | 1 | - | 3 | - | - | - | - | 1 | - | - | 96 | 3 | 74 | 4 | 94 | 8 | 5 | 131 | 10 | 164 | 8 | 5 | 19 | - | 1 | 4 | 1 |
| 20-49 EMPLOYEES | 396 | 368 | 28 | 2 | 1 | 5 | - | - | - | 1 | - | - | - | 75 | 3 | 60 | 2 | 38 | 5 | 7 | 76 | 11 | 84 | 6 | 11 | 1 | 1 | - | 4 | 3 |
| 50-99 EMPLOYEES | 102 | 92 | 10 | 2 | 1 | - | - | - | - | - | - | - | - | 34 | - | 13 | - | 5 | - | 2 | 20 | 3 | 11 | 1 | 2 | 4 | 1 | - | 3 | - |
| 100-249 EMPLOYEES | 82 | 75 | 7 | 9 | 2 | - | - | - | - | - | - | - | - | 43 | - | 2 | - | 1 | - | 6 | 10 | 1 | 3 | - | - | - | 5 | - | - | - |
| 250-499 EMPLOYEES | 32 | 30 | 2 | 7 | 2 | 1 | - | - | - | - | - | - | - | 12 | - | 3 | - | 1 | - | 2 | 3 | - | 1 | - | - | - | - | - | - | - |
| 500-999 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 1000 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

n.e.c. Not elsewhere classified.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

WEST NORTH CENTRAL

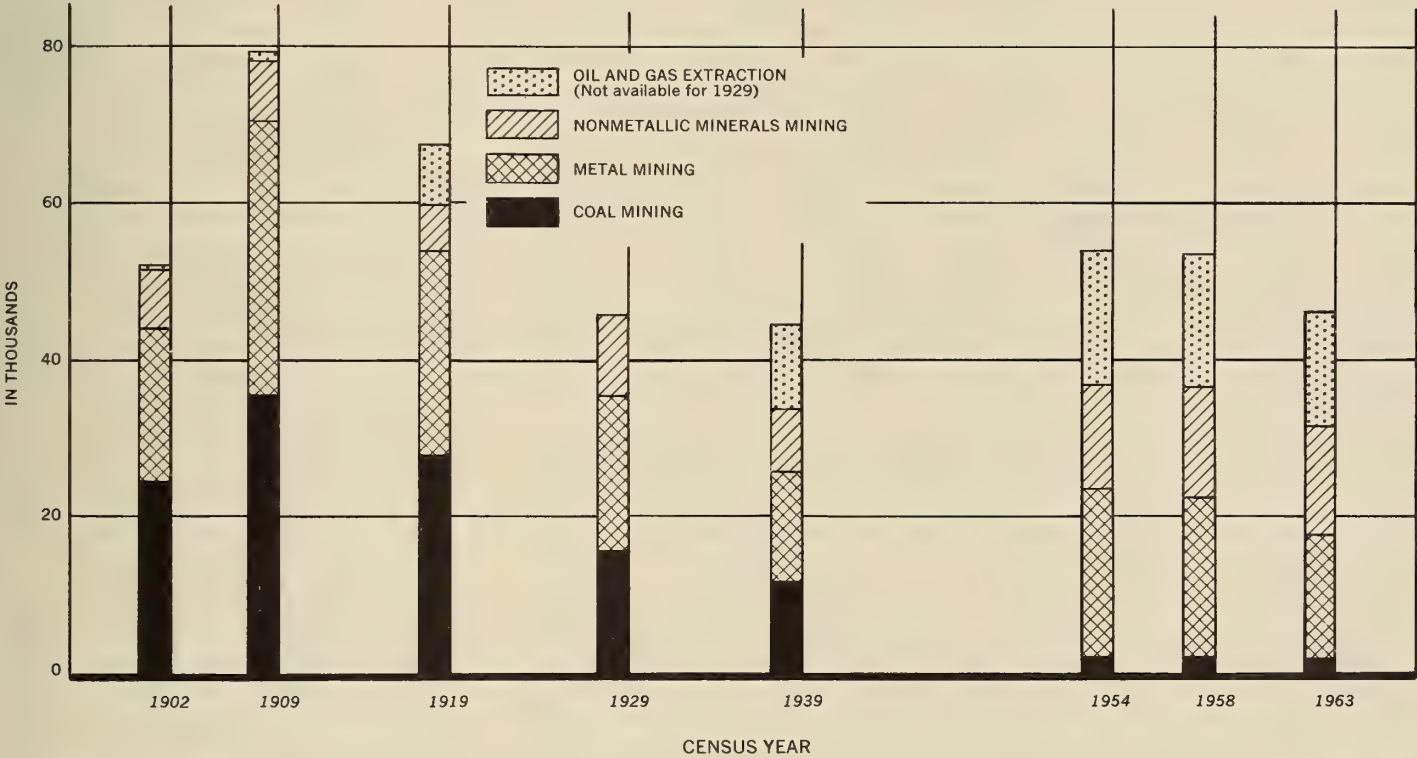


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|--|--|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 3 551 | 393 | 44 119 | 249 771 | 34 852 | 70 324 | 180 932 | 1 069 300 | |
| 1958..... | 3 221 | 452 | 50 928 | 253 055 | 38 591 | 76 427 | 174 836 | 918 673 | |
| 1954..... | 3 320 | 470 | 51 567 | 213 366 | 43 170 | 86 965 | 167 642 | 1 785 763 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963..... | 3 767 | 422 | 46 405 | 260 529 | 36 948 | 74 712 | 190 378 | 1 106 535 | |
| 1958..... | 3 384 | 484 | 53 600 | 264 617 | 41 081 | 81 570 | 184 952 | 956 496 | |
| 1954 ² | 3 435 | 499 | 54 163 | 223 255 | 45 589 | 92 437 | 176 690 | 1 613 247 | |
| 1939 ³ | 42 242 | (NA) | 44 826 | 59 270 | 39 593 | 70 332 | 46 611 | 213 735 | |
| 1919 ⁵ | 1 754 | (NA) | 67 460 | 94 934 | 62 654 | (NA) | 84 892 | 204 842 | |
| 1909 ⁵ | 2 477 | (NA) | 79 460 | 55 403 | 75 759 | (NA) | 50 988 | 104 283 | |
| 1902 ⁶ | 42 596 | (NA) | 52 264 | 35 266 | 748 608 | (NA) | 32 002 | 62 312 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963..... | 1 891 | 249 | 31 838 | 183 878 | 25 406 | 51 506 | 133 532 | 569 590 | |
| 1958..... | 1 712 | 291 | 36 654 | 184 164 | 27 960 | 55 409 | 128 408 | 507 849 | |
| 1954 ² | 1 845 | 287 | 37 132 | 152 819 | 31 421 | 64 145 | 121 344 | (NA) | |
| 1939 ⁸ | 41 466 | (NA) | 34 243 | 43 198 | 30 892 | 56 303 | 35 234 | 156 333 | |
| 1929 ⁹ | 1 248 | (NA) | 45 876 | 65 321 | 42 443 | (NA) | 56 823 | 196 723 | |
| 1919 ¹⁰ | 1 130 | (NA) | 59 962 | 83 107 | 56 346 | (NA) | 75 268 | 173 976 | |
| 1909 ¹¹ | 2 244 | (NA) | 78 170 | 54 582 | 74 734 | (NA) | 50 472 | 99 019 | |
| 1902 ¹² | 42 513 | (NA) | 51 940 | 35 028 | 748 361 | (NA) | 31 827 | 61 863 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ^{1,3} | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 242 012 | 160 375 | 107 865 | 73 747 | 1 476 680 | 176 619 | 28 691 | 823 | 4 892 |
| 1958..... | 225 172 | 93 109 | 106 159 | 69 131 | 1 267 166 | 145 078 | 23 645 | 613 | (NA) |
| 1954..... | 174 159 | 14 10 280 | 130 828 | 104 617 | 1 006 491 | 199 102 | 18 755 | 434 | 3 649 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963..... | 15 250 203 | 15 161 690 | 15 107 876 | 1674 096 | 1 523 394 | 16177 006 | 16 28 691 | 823 | 1 628 691 |
| 1958..... | 15 235 115 | 15 93 109 | 15 106 445 | 1669 326 | 1 315 218 | 16145 273 | 16 23 715 | 577 | (NA) |
| 1954 ² | 15 182 462 | 14 11 252 | 15 131 039 | 16104 929 | 1 043 418 | 16199 457 | 16 18 697 | 410 | 3 672 |
| 1939 ³ | 26 298 | (NA) | 12 936 | (NA) | 252 969 | (NA) | 7 324 | 185 | 1 115 |
| 1919 ⁵ | 68 217 | 299 | 6 754 | (NA) | 280 112 | (NA) | 17 16 955 | 271 | 433 |
| 1909 ⁵ | 21 103 | 1 920 | 2 948 | (NA) | 130 254 | (NA) | (NA) | (NA) | 375 |
| 1902 ⁶ | 10 436 | (NA) | 895 | (NA) | 73 643 | (NA) | (NA) | (NA) | 135 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963..... | 18 220 351 | (18) | 15 20 576 | 1643 197 | 782 646 | 1671 068 | 1614 281 | 613 | 3 282 |
| 1958..... | 18 170 529 | (18) | 15 18 650 | 1626 987 | 680 490 | 1643 525 | 1613 260 | 473 | (NA) |
| 1954 ² | (NA) | (NA) | 15 36 949 | 1642 030 | 1 572 243 | 1680 490 | 166 492 | 207 | 2 583 |
| 1939 ⁸ | 21 441 | (NA) | 523 | (NA) | 178 297 | (NA) | 3 921 | 127 | 828 |
| 1929 ⁹ | 33 411 | (NA) | 1 884 | 6 373 | 232 018 | (NA) | 8 284 | 195 | 555 |
| 1919 ¹⁰ | 34 808 | 12 | 2 801 | (NA) | 211 597 | (NA) | 17 13 368 | 237 | 337 |
| 1909 ¹¹ | 20 244 | 1 650 | 2 648 | (NA) | 123 561 | (NA) | (NA) | (NA) | 338 |
| 1902 ¹² | 9 972 | (NA) | 679 | (NA) | 72 514 | (NA) | (NA) | (NA) | 134 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

NA Not available.

¹Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas. Excludes data for the Uranium-Radium-Vanadium Ores Industries.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. For 1929, there were 144 such sand and gravel establishments, with products valued at \$11,555 thousand and 20 such operations (the value of products of 18 of these stone quarries was \$3,342 thousand). See also footnote 8.

⁶Includes data for lime plants producing lime valued at \$620 thousand and for 7 cement plants. Excludes data for sand and gravel and clay mining operations.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Except for number of establishments, includes data for 23 nonproducing operations in Missouri and South Dakota. See also footnote 3.

⁹Excludes data for common clay and shale operations. In 1939, there were 60 such mines with products of 59 of these mines amounting to \$633 thousand.

¹⁰Except for number of establishments, includes data for one establishment in the crude petroleum and natural gas industry in South Dakota. See also footnote 5.

¹¹Except for number of establishments, includes data for 4 establishments in the crude petroleum and natural gas industry in North Dakota and South Dakota. See also footnote 5.

¹²Except for number of establishments, includes data for 2 oil field operations in Missouri. See also footnote 17.

¹³For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁴Excludes data for natural gas processed at natural gas liquids plants. See also footnote 1.

¹⁵For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work, and for dimension stone operations in manufactures in 1958, the cost of minerals received for preparation, is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁶Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, and for dimension stone mining operations in manufactures, excludes data for Iowa and Nebraska.

¹⁷Excludes purchased electric energy. For "All operations" in 1939 and for "Excluding oil and gas extraction industries" in 1929, the quantity of purchased electric energy amounted to only 5 percent of the total kwh. equivalent of energy used.

¹⁸The cost of minerals received for preparation is included with the cost of supplies, purchased fuels and energy. See also footnote 15.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 3 767 | 422 | 46 405 | 260 529 | 36 948 | 74 712 | 190 378 |
| | MINERAL INDUSTRIES. | 3 551 | 393 | 44 119 | 249 771 | 34 852 | 70 324 | 180 932 |
| | INCLUDED IN MANUFACTURES. | 216 | 29 | 12 286 | 110 758 | 12 096 | 4 388 | 9 446 |
| 10 | METAL MINING. | 139 | 56 | 15 927 | 2116 290 | 12 327 | 225 738 | 278 426 |
| 1011 | IRON ORES | 81 | 48 | 11 974 | 85 308 | 9 001 | 17 165 | 55 967 |
| | GOLD AND SILVER ORES: | | | | | | | |
| 1042 | LODE GOLD | 3 | 1 | 1 765 | 10 113 | 1 556 | 3 409 | 8 592 |
| 1081 | METAL MINING SERVICES | 15 | 2 | 299 | 1 508 | 260 | 486 | 1 266 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING. . . | 132 | 17 | 2 037 | (2) | 1 222 | (2) | (2) |
| 1211 | BITUMINOUS COAL | 85 | 12 | 1 675 | 9 881 | 907 | 1 923 | 5 649 |
| 13 | OIL AND GAS EXTRACTION. | 1 876 | 173 | 14 567 | 76 651 | 11 542 | 23 206 | 56 846 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . . | 1 254 | 94 | 8 494 | 47 548 | 6 277 | 12 709 | 32 491 |
| | CRUDE PETROLEUM | 1 190 | 84 | 7 602 | 41 961 | 5 732 | 11 635 | 28 881 |
| | NATURAL GAS | 64 | 10 | 892 | 5 587 | 545 | 1 074 | 3 610 |
| | OIL AND GAS FIELD SERVICES: | | | | | | | |
| 1381 | DRILLING OIL AND GAS WELLS. | 242 | 39 | 2 753 | 13 539 | 2 420 | 4 795 | 11 402 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 17 | 3 | 256 | 1 318 | 196 | 441 | 954 |
| 14 | NONMETALLIC MINERALS MINING | 1 620 | 176 | 13 874 | 67 588 | 11 857 | 25 768 | 55 106 |
| | MINERAL INDUSTRIES. | 1 404 | 147 | 11 588 | 56 830 | 9 761 | 21 380 | 45 660 |
| | INCLUDED IN MANUFACTURES. | 216 | 29 | 12 286 | 110 758 | 12 096 | 4 388 | 9 446 |
| 1411 | DIMENSION STONE | 50 | 10 | 1 226 | 5 556 | 1 027 | 2 258 | 4 219 |
| | MINERAL INDUSTRY. | 30 | 1 | 171 | 595 | 162 | 327 | 570 |
| | INCLUDED IN MANUFACTURES. | 20 | 9 | 1 055 | 4 961 | 865 | 1 931 | 3 649 |
| | DIMENSION LIMESTONE | 19 | 5 | 304 | 1 396 | 265 | 544 | 1 095 |
| | INCLUDED IN MANUFACTURES. | 10 | 4 | 254 | 1 284 | 217 | 455 | 987 |
| 1421 | CRUSHED AND BROKEN STONE. | 459 | 100 | 6 351 | 32 283 | 5 490 | 12 317 | 26 228 |
| | MINERAL INDUSTRY. | 428 | 86 | 5 691 | 29 048 | 4 830 | 10 998 | 22 993 |
| | INCLUDED IN MANUFACTURES. | 31 | 14 | 1660 | 13 235 | 1660 | 1 319 | 3 235 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: | | | | | | | |
| | MINERAL SUBINDUSTRY. | 403 | 82 | 5 423 | 27 620 | 4 634 | 10 600 | 22 105 |
| | CRUSHED AND BROKEN GRANITE SUB- INDUSTRY (MINERAL SUBINDUSTRY). . . | 4 | 2 | 62 | 356 | 57 | 133 | 315 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY: | | | | | | | |
| | MINERAL SUBINDUSTRY. | 21 | 2 | 206 | 1 072 | 139 | 265 | 573 |
| 1441 | SAND AND GRAVEL. | 902 | 44 | 4 734 | 22 736 | 3 980 | 8 391 | 18 980 |
| | MINERAL INDUSTRY | 831 | 43 | 4 590 | 22 122 | 3 836 | 8 105 | 18 366 |
| | INCLUDED IN MANUFACTURES | 71 | 1 | 144 | 1614 | 144 | 286 | 614 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 816 | 39 | 4 411 | 21 043 | 3 675 | 7 798 | 17 478 |
| | GLASS SAND AND MOLDING SAND SUB- INDUSTRIES. | 8 | 2 | 76 | 428 | 68 | 138 | 361 |
| | INDUSTRIAL SAND, N.E.C., SUB- INDUSTRY. | 7 | 2 | 103 | 651 | 93 | 169 | 527 |
| 145 | CLAY AND RELATED MINERALS. | 137 | 7 | 676 | 3 163 | 621 | 1 326 | 2 844 |
| | MINERAL INDUSTRY | 50 | 7 | 381 | 1 839 | 326 | 738 | 1 520 |
| | INCLUDED IN MANUFACTURES | 87 | - | 1295 | 11 324 | 1295 | 588 | 1 324 |
| 1453 | FIRE CLAY. | 58 | 1 | 267 | 1 142 | 250 | 476 | 1 034 |
| | MINERAL INDUSTRY | 26 | 1 | 116 | 484 | 99 | 176 | 376 |
| | INCLUDED IN MANUFACTURES | 32 | - | 151 | 1658 | 151 | 300 | 658 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C.. MINERAL INDUSTRY | 68 | 3 | 272 | 1 321 | 255 | 516 | 1 180 |
| | INCLUDED IN MANUFACTURES | 13 | 3 | 128 | 655 | 111 | 228 | 514 |
| | | 55 | - | 144 | 1666 | 144 | 288 | 666 |
| 1472 | BARITE | 17 | 5 | 371 | 1 305 | 333 | 698 | 1 179 |
| 1481 | NONMETALLIC MINERALS SERVICES. | 30 | - | 110 | 401 | 104 | 188 | 385 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 22 | 8 | 253 | 1 133 | 227 | 460 | 919 |
| | MINERAL INDUSTRY | 15 | 3 | 121 | 509 | 95 | 196 | 295 |
| | INCLUDED IN MANUFACTURES | 7 | 5 | 132 | 1624 | 132 | 264 | 624 |
| 1498 | GYPSUM (INCLUDED IN MANUFACTURES). PEAT | 7 | 5 | 132 | 1624 | 132 | 264 | 624 |
| | | 7 | 1 | 59 | 280 | 52 | 114 | 180 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 106 535 | ³ 593 865 | ¹¹ 523 394 | ⁴ 177 006 | 53 600 | 956 496 |
| | MINERAL INDUSTRIES | 1 069 300 | 583 999 | 1 476 680 | 176 619 | 50 928 | 918 673 |
| | INCLUDED IN MANUFACTURES | 37 235 | ³⁹ 866 | ¹⁴⁶ 714 | ⁴ 387 | ¹² 672 | 37 823 |
| 10 | METAL MINING | ² 401 000 | ² 201 884 | ² 553 799 | ² 49 085 | 20 481 | ² 355 175 |
| 1011 | IRON ORES | 344 110 | 167 854 | 477 902 | 34 062 | (NA) | (NA) |
| | GOLD AND SILVER ORES: | | | | | | |
| 1042 | LODE GOLD | 16 402 | 4 485 | 20 351 | 536 | (NA) | (NA) |
| 1081 | METAL MINING SERVICES | 2 880 | 924 | 3 497 | 307 | 159 | 1 437 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | (²) | (²) | (²) | (²) | 2 201 | (²) |
| 1211 | BITUMINOUS COAL | 17 927 | 11 967 | 22 997 | 6 897 | 1 877 | 16 022 |
| 13 | OIL AND GAS EXTRACTION | 536 945 | 309 741 | 740 748 | 105 938 | 16 946 | 448 647 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 455 917 | 150 722 | 527 043 | 79 596 | 10 958 | 384 190 |
| | CRUDE PETROLEUM | 380 842 | 137 766 | 446 652 | 71 956 | 10 430 | 347 666 |
| | NATURAL GAS | 75 075 | 12 956 | 80 391 | 7 640 | 528 | 36 524 |
| | OIL AND GAS FIELD SERVICES: | | | | | | |
| 1381 | DRILLING OIL AND GAS WELLS | 33 423 | 18 747 | 46 482 | 5 688 | 3 356 | 31 384 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 2 076 | 1 999 | 3 792 | 283 | 212 | 1 874 |
| 14 | NONMETALLIC MINERALS MINING | 168 590 | ³ 82 240 | ¹ 228 847 | 21 983 | 13 972 | 155 938 |
| | MINERAL INDUSTRIES | 131 355 | 72 374 | 182 133 | 21 596 | 11 300 | 118 115 |
| | INCLUDED IN MANUFACTURES | 37 235 | ³⁹ 866 | ¹⁴⁶ 714 | 387 | ¹² 672 | 37 823 |
| 1411 | DIMENSION STONE | 10 031 | 5 063 | 14 627 | 467 | 1 692 | 10 850 |
| | MINERAL INDUSTRY | 1 410 | 631 | 1 961 | 80 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 8 621 | 4 432 | 12 666 | 387 | (NA) | (NA) |
| | DIMENSION LIMESTONE | 1 788 | 1 038 | 2 679 | 147 | 309 | 1 602 |
| | INCLUDED IN MANUFACTURES | 1 558 | 861 | 2 327 | 92 | 253 | 1 453 |
| 1421 | CRUSHED AND BROKEN STONE | 79 276 | ³ 40 415 | ¹ 107 574 | (NA) | 6 085 | 72 894 |
| | MINERAL INDUSTRY | 64 566 | 37 656 | 90 105 | 12 117 | 5 462 | 57 426 |
| | INCLUDED IN MANUFACTURES | 14 710 | ² 2 759 | ¹ 17 469 | (NA) | ¹ 623 | 15 468 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: | | | | | | |
| | MINERAL SUBINDUSTRY | 62 479 | 35 931 | 86 741 | 11 669 | 5 154 | 54 603 |
| | CRUSHED AND BROKEN GRANITE SUB- INDUSTRY (MINERAL SUBINDUSTRY) | 737 | 719 | 1 311 | 145 | 59 | 380 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY: | | | | | | |
| | MINERAL SUBINDUSTRY | 1 350 | 1 006 | 2 053 | 303 | 249 | 2 443 |
| 1441 | SAND AND GRAVEL | 53 805 | ³ 27 150 | ¹ 73 155 | (NA) | 4 666 | 48 484 |
| | MINERAL INDUSTRY | 50 341 | 26 710 | 69 251 | 7 800 | 4 456 | 44 747 |
| | INCLUDED IN MANUFACTURES | 3 464 | ² 440 | ¹ 3 904 | (NA) | ¹ 210 | 3 737 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 47 053 | 25 498 | 65 002 | 7 549 | ⁵ 4 364 | ⁵ 44 014 |
| | GLASS SAND AND MOLDING SAND SUB- INDUSTRIES | 1 181 | 507 | 1 613 | 75 | 92 | 733 |
| | INDUSTRIAL SAND, N.E.C., SUB- INDUSTRY | 2 107 | 705 | 2 636 | 76 | (⁵) | (⁵) |
| 145 | CLAY AND RELATED MINERALS | 10 908 | ³ 4 637 | ¹ 14 811 | (NA) | 759 | 10 042 |
| | MINERAL INDUSTRY | 6 841 | 3 168 | 9 275 | 734 | 567 | 6 758 |
| | INCLUDED IN MANUFACTURES | 4 067 | ³ 1 469 | ¹ 5 536 | (NA) | ¹ 192 | 3 284 |
| 1453 | FIRE CLAY | 4 594 | ³ 1 643 | ¹ 5 850 | (NA) | 337 | 4 946 |
| | MINERAL INDUSTRY | 2 567 | 854 | 3 034 | 387 | 303 | 3 894 |
| | INCLUDED IN MANUFACTURES | 2 027 | ³ 789 | ² 2 816 | (NA) | ¹ 34 | 1 052 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C., MINERAL INDUSTRY | 3 287 | ³ 1 816 | ¹ 4 899 | (NA) | 305 | 3 379 |
| | INCLUDED IN MANUFACTURES | 1 247 | 1 136 | 2 179 | 204 | 147 | 1 147 |
| | | 2 040 | ³ 680 | ² 2 720 | (NA) | ¹ 158 | 2 232 |
| 1472 | BARITE | 3 779 | 2 719 | 6 184 | 314 | 307 | 4 527 |
| 1481 | NONMETALLIC MINERALS SERVICES | 1 360 | 656 | 1 648 | 368 | (NA) | (NA) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | (D) | (D) | (D) | (NA) | ¹ 234 | 6 895 |
| | MINERAL INDUSTRY | (D) | (D) | (D) | (D) | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 6 373 | ³ 766 | ¹ 7 139 | (NA) | (NA) | (NA) |
| 1498 | GYPSUM (INCLUDED IN MANUFACTURES) | 6 373 | ³ 766 | ¹ 7 139 | (NA) | (NA) | (NA) |
| | PEAT | 391 | 223 | 516 | 98 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Footnotes continued on next page.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

Footnotes continued for table 2A.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
 n.e.c. Not elsewhere classified.
¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.
²Figures for bituminous coal and lignite mining are included with those for metal mining.
³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.
⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.
⁵Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ¹ of primary products by establishment classified in— | | | |
|------|---|----------------------|---|-----------------------------------|---------------------|-------------------------------|----------------------|---|---|--|-----------------------|--|----------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 583 999 | 242 012 | 160 375 | 107 865 | 73 747 | 176 619 | 59 146 | 117 473 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING. | ³ 201 884 | ³ 112 998 | 50 939 | ³ 11 430 | ³ 26 517 | ³ 49 085 | ³ 17 838 | ³ 31 247 | (X) | (X) | (X) | (X) |
| 1011 | IRON ORES | 167 854 | ⁴ 145 380 | (⁴) | 8 816 | 13 658 | 34 062 | 15 598 | 18 464 | ⁵ 58 276 | ⁵ 548 948 | (⁵) | (⁵) |
| 1042 | LODE GOLD | 4 485 | 4 485 | - | - | - | 536 | 161 | 375 | ⁶ 1 914 | 20 185 | - | - |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | (³) | (³) | - | (³) | (³) | (³) | (³) | (³) | (X) | (X) | (X) | (X) |
| 1211 | BITUMINOUS COAL | 11 967 | 3 972 | - | 157 | 7 838 | 6 897 | 50 | 6 847 | 5 595 | 22 959 | - | - |
| 13 | OIL AND GAS EXTRACTION. . . . | 309 741 | 83 825 | 107 717 | 87 300 | 30 899 | 105 938 | 40 817 | 65 121 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 150 722 | 59 308 | - | 66 534 | 24 880 | 79 596 | 39 117 | 40 479 | (X) | 519 598 | (X) | 5 850 |
| | CRUDE PETROLEUM | 137 766 | 55 241 | - | 59 753 | 22 772 | 71 956 | 35 261 | 36 695 | ⁷ 143 788 | 403 635 | ⁷ 7 788 | 21 595 |
| | NATURAL GAS | 12 956 | 4 067 | - | 6 781 | 2 108 | 7 640 | 3 856 | 3 784 | ⁸ 471 631 | 64 113 | ⁸ 293 553 | 36 105 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 18 747 | 11 988 | - | 3 888 | 2 871 | 5 688 | 1 681 | 4 007 | (X) | ⁹ 45 143 | (X) | (⁹) |
| 14 | NONMETALLIC MINERALS MINING . | 72 374 | 45 189 | 1 719 | 9 135 | 16 331 | 21 596 | 491 | 21 105 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE. . | 37 656 | 24 150 | 1 075 | 3 900 | 8 531 | 12 117 | 306 | 11 811 | 56 397 | 81 726 | ¹⁰ 13 829 | ¹⁰ 17 552 |
| | CRUSHED AND BROKEN LIME-STONE. | 35 931 | 23 145 | 1 005 | 3 548 | 8 233 | 11 669 | 303 | 11 366 | 54 219 | 78 230 | ¹¹ 12 852 | ¹¹ 16 095 |
| 1441 | SAND AND GRAVEL | 26 710 | 15 756 | 604 | 3 742 | 6 608 | 7 800 | 153 | 7 647 | 66 474 | ¹⁰ 126 282 | ¹⁰ 3 060 | (¹²) |
| | CONSTRUCTION SAND AND GRAVEL | 25 498 | 15 205 | 604 | 3 719 | 5 970 | 7 549 | 133 | 7 416 | 64 765 | ¹² 136 099 | ¹³ 2 952 | (¹²) |
| 145 | CLAY AND RELATED MINERALS . | 3 168 | 1 944 | 40 | 629 | 555 | 734 | 21 | 713 | (X) | (X) | (X) | (X) |
| 1472 | CHEMICAL AND FERTILIZER MINERALS: BARITE. | 2 719 | 1 817 | - | 695 | 207 | 314 | - | 314 | 308 | 6 162 | - | - |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
 n.e.c. Not elsewhere classified.
¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.
²Represents expenditures during the year for both new and used plant and equipment.
³Figures for bituminous coal and lignite mining are included with those for metal mining.
⁴Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.
⁵Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Figures for shipments of primary products by establishments classified in other industries are included with those for shipments of primary products by establishments classified in the specified industry. Includes figures for East North Central. Quantity represents thousands of long tons.
⁶Represents crude ore mined.
⁷Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.
⁸Represents millions of cubic feet of natural gas shipped.
⁹Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.
¹⁰Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.
¹¹See footnote 10. Also, includes crushed and broken stone, n.e.c. produced and used in the same establishment, amounting to less than one percent of the total shown.
¹²Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.
¹³Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 2 909 | 2 742 | 1 445 | 39 | 277 | 1 129 | 1 239 | 34 | 1 122 | 83 | 58 | 167 | |
| | NUMBER OF EMPLOYEES..... | 35 317 | 34 196 | 10 703 | 271 | 2 729 | 7 703 | 21 463 | 4 612 | 15 675 | 1 176 | 2 030 | 1 121 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 1 006 625 | 1 014 673 | 521 362 | 3 982 | 58 885 | 458 495 | 405 585 | 43 550 | 348 804 | 13 231 | 87 726 | (²) | |
| 10 | METAL MINING | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 124 | 104 | 40 | 15 | 23 | 2 | 54 | 6 | 48 | - | 10 | 20 | |
| | NUMBER OF EMPLOYEES..... | 14 370 | 13 584 | (D) | (D) | (D) | (D) | 10 122 | 4 133 | 5 989 | - | (D) | 786 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 375 415 | 381 908 | (D) | (D) | (D) | (D) | 267 551 | 37 761 | 229 790 | - | (D) | (²) | |
| 101 | IRON ORES | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 81 | 70 | 16 | 4 | 12 | - | 48 | 2 | 46 | - | 6 | 11 | |
| | NUMBER OF EMPLOYEES..... | 10 721 | 10 038 | (D) | (D) | (D) | - | 6 719 | (D) | (D) | - | (D) | 683 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 344 110 | 350 974 | (D) | (D) | (D) | - | 238 133 | (D) | (D) | - | (D) | (²) | |
| 12 | BITUMINOUS COAL & LIGNITE MINING | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 129 | 123 | 60 | 23 | 37 | - | 63 | 10 | 53 | - | - | 6 | |
| | NUMBER OF EMPLOYEES..... | 1 364 | 1 354 | 228 | 73 | 155 | - | 1 126 | 85 | 1 041 | - | - | 10 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 22 705 | 22 705 | 3 338 | 464 | 2 874 | - | 19 367 | 361 | 19 006 | - | - | - | |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 282 | 1 155 | 1 127 | - | - | 1 127 | - | - | - | - | 28 | 127 | |
| | NUMBER OF EMPLOYEES..... | 8 389 | 8 150 | (D) | - | - | (D) | - | - | - | - | (D) | 239 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 478 510 | 479 832 | (D) | - | - | (D) | - | - | - | - | (D) | (²) | |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 374 | 1 360 | 218 | 1 | 217 | - | 1 122 | 18 | 1 021 | 83 | 20 | 14 | |
| | NUMBER OF EMPLOYEES..... | 11 194 | 11 108 | 807 | (D) | (D) | - | 10 215 | 394 | 8 645 | 1 176 | 86 | 86 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 129 995 | 130 228 | 10 416 | (D) | (D) | - | 118 667 | 5 428 | 100 008 | 13 231 | 1 145 | (²) | |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 428 | 421 | 29 | - | 29 | - | 389 | 16 | 366 | 7 | 3 | 7 | |
| | NUMBER OF EMPLOYEES..... | 5 556 | 5 500 | 193 | - | 193 | - | 5 274 | (D) | (D) | (D) | 33 | 56 | |
| | VALUE ADDED IN MINING.....\$1,000.. | 64 566 | 64 745 | 3 871 | - | 3 871 | - | 60 429 | (D) | (D) | (D) | 445 | (²) | |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 831 | 825 | 108 | - | 108 | - | 700 | - | 624 | 76 | 17 | 6 | |
| | NUMBER OF EMPLOYEES..... | 4 496 | (D) | (D) | - | (D) | - | 4 159 | - | (D) | (D) | 53 | (D) | |
| | VALUE ADDED IN MINING.....\$1,000.. | 50 341 | (D) | (D) | - | (D) | - | 47 561 | - | (D) | (D) | 700 | (D) | |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 50 | 50 | 34 | - | 34 | - | 16 | - | 16 | - | - | - | |
| | NUMBER OF EMPLOYEES..... | 390 | 390 | 77 | - | 77 | - | 313 | - | 313 | - | - | - | |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 841 | 6 841 | 2 227 | - | 2 227 | - | 4 704 | - | 4 704 | - | - | - | |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

(For county statistics, see table 3 of the individual State reports)

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|--|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| WEST NORTH CENTRAL DIVISION-TOTAL | 3 767 | 3 551 | 216 | 81 | 2 | 10 | 4 | - | - | 15 | 27 | - | - | 129 | 31 | 254 | 28 | 594 | 30 | 20 | 428 | 31 | 831 | 71 | 50 | 87 | 20 | 30 | 15 | 7 | |
| NO EMPLOYEES | 774 | 762 | 12 | 5 | - | 1 | - | - | - | 1 | 10 | - | - | 24 | 1 | 418 | - | 62 | 3 | - | 36 | - | 176 | 8 | 14 | 4 | 2 | 5 | 4 | - | |
| 1-4 EMPLOYEES | 1 570 | 1 441 | 129 | 10 | 1 | 2 | 3 | - | - | 8 | 12 | - | - | 53 | 2 | 550 | 3 | 247 | 12 | 5 | 115 | 6 | 379 | 56 | 18 | 62 | 3 | 17 | 6 | - | |
| 5-9 EMPLOYEES | 508 | 481 | 27 | 8 | - | - | - | - | - | 4 | 3 | - | - | 23 | - | 105 | 5 | 90 | 11 | 2 | 68 | 5 | 147 | 5 | 8 | 14 | 2 | 5 | 2 | 1 | |
| 10-19 EMPLOYEES | 493 | 474 | 19 | 10 | 1 | 4 | - | - | - | - | - | - | - | 12 | - | 87 | 12 | 124 | 3 | 4 | 123 | 6 | 86 | 1 | 3 | 7 | 6 | 3 | - | 1 | |
| 20-49 EMPLOYEES | 301 | 279 | 22 | 9 | - | - | - | - | - | 1 | - | - | - | 9 | - | 69 | 7 | 58 | 1 | 3 | 74 | 13 | 39 | 1 | 6 | - | 3 | - | 3 | 5 | |
| 50-99 EMPLOYEES | 65 | 61 | 4 | 11 | - | - | - | - | - | - | 2 | - | - | 6 | - | 13 | 1 | 10 | - | 4 | 10 | - | 3 | - | 1 | - | 4 | - | - | - | |
| 100-249 EMPLOYEES | 43 | 41 | 2 | 20 | - | 2 | - | - | - | 1 | - | - | - | 2 | - | 10 | - | 3 | - | 1 | 2 | 1 | 1 | - | - | - | - | - | - | - | |
| 250-499 EMPLOYEES | 6 | 3 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| 500-999 EMPLOYEES | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1000 EMPLOYEES AND OVER | 5 | 5 | - | 3 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

*Companies operating oil and gas field properties were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

SOUTH ATLANTIC

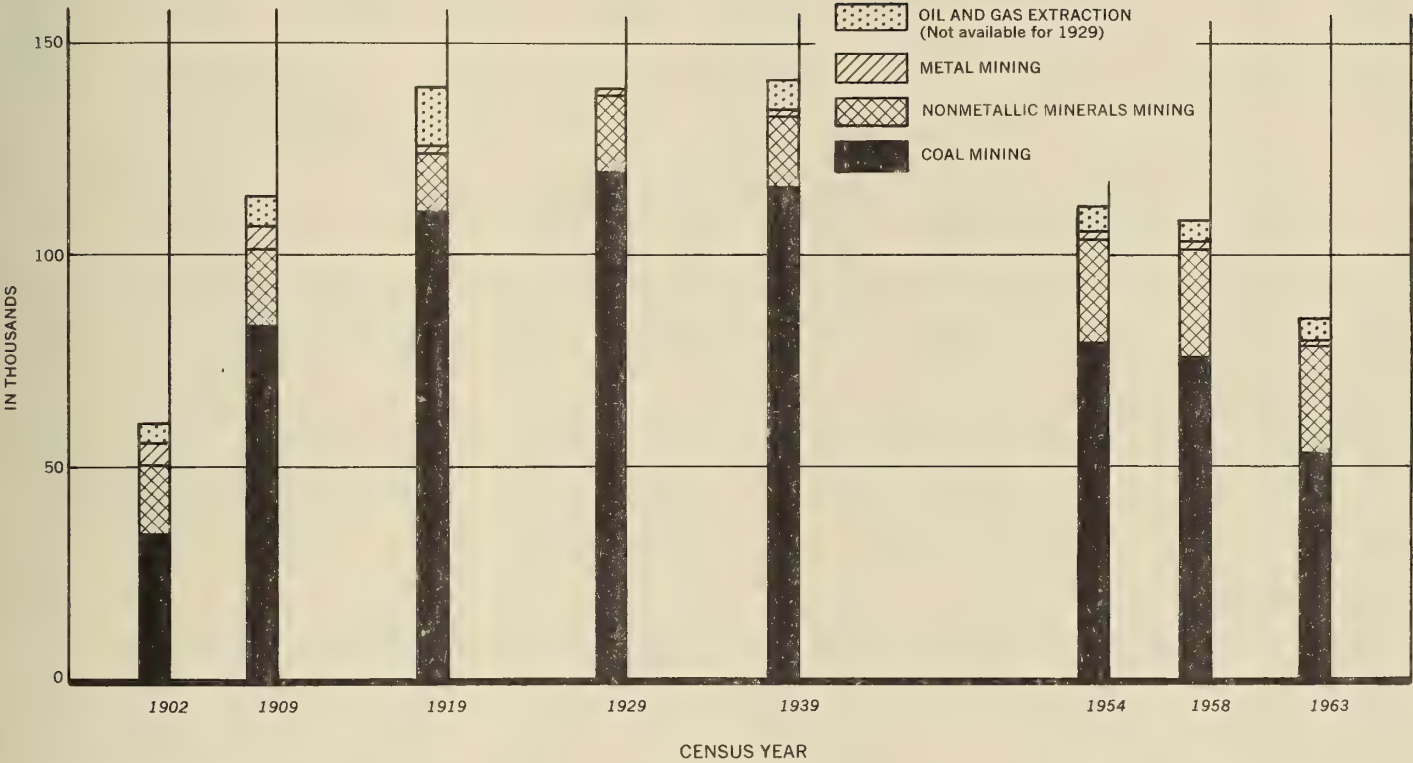


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|---|--|--|----------------------------|--|--|-----------------------------------|----------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 4 447 | 802 | 82 179 | 434 279 | 72 264 | 140 768 | 366 226 | 1 011 629 |
| 1958 | 4 701 | 899 | 106 066 | 478 296 | 92 417 | 161 799 | 399 482 | 939 989 |
| 1954 | 4 227 | 808 | 108 999 | 421 261 | 98 602 | 176 135 | 366 985 | 1 761 393 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | 4 704 | 837 | 85 411 | 447 223 | 75 283 | 146 685 | 378 035 | 1 045 150 |
| 1958 | 4 875 | 930 | 108 816 | 487 949 | 95 002 | 166 763 | 408 309 | 969 764 |
| 1954 | 4 380 | 843 | 111 848 | 429 574 | 101 328 | 181 592 | 374 640 | 1 782 793 |
| 1939 ³ | 4 2 141 | (NA) | 141 898 | 173 211 | 134 746 | 211 365 | 157 882 | 243 276 |
| 1919 ⁵ | 2 296 | (NA) | 139 735 | 168 254 | 129 844 | (NA) | 149 394 | 280 779 |
| 1909 ⁵ | 1 532 | (NA) | 114 473 | 55 769 | 109 271 | (NA) | 50 004 | 81 551 |
| 1902 ⁶ | 4 6 174 | (NA) | 61 246 | 33 191 | 756 694 | (NA) | 29 062 | 53 652 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | 3 623 | 798 | 80 367 | 424 111 | 71 221 | 138 490 | 360 585 | 967 393 |
| 1958 | 3 840 | 885 | 103 440 | 467 940 | 90 457 | 158 019 | 392 191 | 914 596 |
| 1954 | 3 408 | 793 | 105 909 | 410 502 | 96 126 | 172 204 | 358 919 | 1 720 490 |
| 1939 ⁸ | 4 1 590 | (NA) | 134 538 | 164 132 | 128 232 | 200 349 | 150 435 | 220 295 |
| 1929 ⁹ | 1 349 | (NA) | 139 359 | 175 545 | 132 089 | (NA) | 157 949 | 245 493 |
| 1919 ⁵ | 1 540 | (NA) | 126 071 | 153 317 | 117 537 | (NA) | 136 973 | 206 068 |
| 1909 ⁵ | 1 082 | (NA) | 107 006 | 50 578 | 102 514 | (NA) | 45 605 | 65 527 |
| 1902 ⁶ | 4 2 672 | (NA) | 56 263 | 29 382 | 752 260 | (NA) | 25 878 | 42 453 |
| Kind of operation and year | Selected expenses | | | | | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ¹⁰ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | Per production worker (1,000) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 307 651 | 247 373 | 55 261 | 89 191 | 1 574 915 | 136 190 | 19 695 | 273 |
| 1958 | ¹¹ 281 858 | ¹¹ 194 560 | 43 227 | 93 637 | 1 411 426 | 141 845 | 14 697 | 159 |
| 1954 | 238 995 | ¹² 102 110 | 39 317 | 75 363 | ¹¹ 1 118 407 | 98 768 | 12 953 | 131 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | ¹³ 318 865 | 248 230 | ¹³ 55 369 | ¹⁴ 89 821 | 1 620 521 | ¹⁴ 136 914 | ¹⁴ 19 695 | 273 |
| 1958 | ¹³ 287 827 | ¹¹ 194 842 | ¹³ 43 251 | ¹⁴ 93 996 | 1 447 446 | ¹⁴ 142 234 | ¹⁴ 14 740 | 155 |
| 1954 | ¹³ 243 903 | ¹² 102 145 | ¹³ 39 332 | ¹⁴ 75 549 | ¹¹ 1 144 729 | ¹⁴ 98 990 | ¹⁴ 12 994 | 128 |
| 1939 ³ | 49 004 | (NA) | 2 741 | (NA) | 295 021 | (NA) | 8 876 | 66 |
| 1919 ⁵ | 60 933 | 5 890 | 4 472 | (NA) | 352 074 | (NA) | ¹⁵ 17 780 | 137 |
| 1909 ⁵ | 18 295 | 894 | 4 976 | (NA) | 105 716 | (NA) | (NA) | (NA) |
| 1902 ⁶ | 12 018 | (NA) | 5 422 | (NA) | 71 092 | (NA) | (NA) | (NA) |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | ¹³ 300 488 | 144 760 | ¹³ 31 962 | ¹⁴ 83 823 | 1 421 467 | ¹⁴ 106 959 | ¹⁴ 16 875 | 247 |
| 1958 | ¹³ 272 637 | ¹¹ 172 504 | ¹³ 33 828 | ¹⁴ 85 658 | 1 358 086 | ¹⁴ 121 137 | ¹⁴ 11 366 | 126 |
| 1954 | ¹³ 231 570 | ¹² 100 043 | ¹³ 28 741 | ¹⁴ 69 987 | ¹¹ 1 068 626 | ¹⁴ 82 213 | ¹⁴ 10 848 | 113 |
| 1939 ⁸ | 46 180 | (NA) | 721 | (NA) | 267 196 | (NA) | 6 864 | 54 |
| 1929 ⁹ | 51 082 | (NA) | 719 | 11 131 | 297 294 | (NA) | 9 229 | 70 |
| 1919 ⁵ | 45 537 | 18 | 933 | (NA) | 252 556 | (NA) | ¹⁵ 14 069 | (NA) |
| 1909 ⁵ | 11 486 | - | 525 | (NA) | 77 538 | (NA) | (NA) | (NA) |
| 1902 ⁶ | 5 958 | (NA) | 251 | (NA) | 48 662 | (NA) | (NA) | (NA) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. For 1929, there were 61 such sand and gravel establishments, with products of 55 of these establishments valued at \$7,086 thousand, and 29 such stone operations (the value of products of 19 of these stone quarries was \$3,180 thousand). See also footnote 9.

⁶Includes data for lime plants producing lime valued at \$861 thousand and for 3 cement plants. Excludes data for sand and gravel and clay mining operations and for stone quarries at 7 cement plants with cement produced valued at \$786 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Includes data for one nonproducing operation in the Crude Petroleum and Natural Gas Industry in Florida. See also footnote 3.

⁹Excludes data for common clay and shale operations. In 1939 there were 90 such mines (the value of products of 89 of these stone operations \$887 thousand).

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹¹The cost of minerals received for preparation in South Carolina is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas. See also footnote 1.

¹³For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For 1958, see also footnote 11.

¹⁴Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁵Excludes purchased electric energy. For "All operations" in 1939 and for "Excluding oil and gas extraction industries" in 1929, the quantity of purchased electric energy amounted to 9 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 4 704 | 837 | 85 411 | 447 223 | 75 283 | 146 685 | 378 035 |
| | MINERAL INDUSTRIES | 4 447 | 802 | 82 179 | 434 279 | 72 264 | 140 768 | 366 226 |
| | INCLUDED IN MANUFACTURES | 257 | 35 | ¹³ 232 | ¹² 944 | ¹³ 019 | 5 917 | 11 809 |
| 10 | METAL MINING | 36 | 10 | 1 094 | 5 512 | 880 | 1 790 | 3 942 |
| 1011 | IRON ORES | 15 | 2 | 122 | 424 | 110 | 214 | 389 |
| 109 | MISCELLANEOUS METAL ORES | 6 | 5 | 490 | 2 808 | 377 | 766 | 1 883 |
| 12 | BITUMINOUS COAL MINING | 2 428 | 451 | 53 497 | 299 414 | 48 310 | 88 313 | 261 401 |
| 1211 | BITUMINOUS COAL | 2 390 | 445 | 53 061 | 296 987 | 47 904 | 87 605 | 259 258 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 38 | 6 | 436 | 2 427 | 406 | 708 | 2 143 |
| 13 | OIL AND GAS EXTRACTION | 1 083 | 39 | 5 044 | 23 112 | 4 062 | 8 195 | 17 450 |
| 1381 | DRILLING OIL AND GAS WELLS | 129 | 13 | 1 090 | 5 171 | 992 | 2 146 | 4 593 |
| 14 | NONMETALLIC MINERALS MINING | 1 157 | 337 | 25 776 | 119 185 | 22 031 | 48 387 | 95 242 |
| | MINERAL INDUSTRIES | 900 | 302 | ²² 544 | ¹⁰⁶ 241 | ¹⁹ 012 | 42 470 | 83 433 |
| | INCLUDED IN MANUFACTURES | 257 | 35 | ¹³ 232 | ¹² 944 | ¹³ 019 | 5 917 | 11 809 |
| 1411 | DIMENSION STONE | 68 | 22 | 2 046 | 7 387 | 1 816 | 3 520 | 6 182 |
| | MINERAL INDUSTRY | 32 | 4 | 276 | 824 | 259 | 511 | 754 |
| | INCLUDED IN MANUFACTURES | 36 | 18 | 1 770 | 6 563 | 1 557 | 3 009 | 5 428 |
| | DIMENSION GRANITE | 44 | 16 | 1 318 | 4 844 | 1 173 | 2 201 | 3 983 |
| | MINERAL INDUSTRY | 18 | 3 | 160 | 457 | 155 | 288 | 446 |
| | INCLUDED IN MANUFACTURES | 26 | 13 | 1 158 | 4 387 | 1 018 | 1 913 | 3 537 |
| 1421 | CRUSHED AND BROKEN STONE | 388 | 180 | 9 796 | 45 621 | 8 560 | 19 166 | 36 779 |
| | MINERAL INDUSTRY | 342 | 165 | 8 997 | 42 017 | 7 761 | 17 569 | 33 175 |
| | INCLUDED IN MANUFACTURES | 45 | 15 | ¹⁷ 799 | ¹³ 604 | ¹⁷ 799 | 1 597 | 3 604 |
| | CRUSHED AND BROKEN LIMESTONE QUARRIES | 242 | 102 | 5 346 | 25 674 | 4 737 | 10 803 | 21 114 |
| | MINERAL INDUSTRY | 201 | 88 | 4 716 | 22 393 | 4 107 | 9 543 | 17 833 |
| | INCLUDED IN MANUFACTURES | 41 | 14 | ¹⁶ 30 | ¹³ 281 | ¹⁶ 30 | 1 260 | 3 281 |
| 1441 | SAND AND GRAVEL | 433 | 55 | 4 572 | 21 138 | 3 770 | 8 519 | 16 837 |
| | MINERAL INDUSTRY | 357 | 55 | 4 366 | 20 259 | 3 564 | 8 106 | 15 958 |
| | INCLUDED IN MANUFACTURES | 76 | - | ¹² 06 | ¹⁸ 79 | ¹² 06 | 413 | 879 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 339 | 47 | 3 662 | 16 829 | 3 035 | 6 900 | 13 604 |
| | GLASS SAND SUBINDUSTRY | 9 | 6 | 586 | 3 125 | 431 | 945 | 1 978 |
| | INDUSTRIAL SAND, N.E.C. ¹ SUBINDUSTRY | 9 | 2 | 118 | 505 | 98 | 261 | 376 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRY | 63 | 41 | 4 249 | 20 983 | 3 671 | 7 737 | 17 001 |
| 1453 | FIRE CLAY | 8 | 1 | ¹⁶ 0 | ¹³⁶ 7 | ¹⁶ 0 | 121 | 367 |
| 1454 | FULLER'S EARTH | 8 | 8 | 723 | 2 922 | 624 | 1 308 | 2 302 |
| 1459 | CLAY AND RELATED MINERALS | 110 | 9 | 752 | 3 071 | 677 | 1 382 | 2 551 |
| | MINERAL INDUSTRY | 16 | 9 | 457 | 1 950 | 382 | 808 | 1 430 |
| | INCLUDED IN MANUFACTURES | 94 | - | ¹² 95 | ¹¹ 121 | ¹² 95 | 574 | 1 121 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 40 | 26 | 3 557 | 18 075 | 2 796 | 6 580 | 13 063 |
| 1472 | BARITE | 5 | 3 | 144 | 682 | 128 | 312 | 573 |
| 1481 | NONMETALLIC MINERAL SERVICES | 14 | 1 | 110 | 452 | 101 | 201 | 409 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. ¹ MINERAL INDUSTRY | 52 | 10 | 989 | 3 631 | 860 | 1 766 | 3 073 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 045 150 | ² 712 285 | ¹ 1 620 521 | ³ 136 914 | 108 816 | 969 764 |
| | MINERAL INDUSTRIES | 1 011 629 | 699 476 | 1 574 915 | 136 190 | 106 066 | 939 989 |
| | INCLUDED IN MANUFACTURES | 33 521 | ² 12 809 | ¹ 45 606 | ³ 724 | ¹² 750 | 29 775 |
| 10 | METAL MINING | 13 897 | 8 143 | 20 663 | 1 377 | 1 759 | 12 944 |
| 1011 | IRON ORES | 1 306 | 1 727 | 2 656 | 377 | (NA) | (NA) |
| 109 | MISCELLANEOUS METAL ORES | 8 095 | 3 680 | 11 179 | 596 | 665 | 5 989 |
| 12 | BITUMINOUS COAL MINING | 608 599 | 354 355 | 902 616 | 60 338 | 76 542 | 642 475 |
| 1211 | BITUMINOUS COAL | 602 800 | 350 067 | 893 578 | 59 289 | 75 925 | 636 742 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 5 799 | 4 288 | 9 038 | 1 049 | 617 | 5 733 |
| 13 | OIL AND GAS EXTRACTION | 77 757 | 151 252 | 199 054 | 29 955 | 5 376 | 55 168 |
| 1381 | DRILLING OIL AND GAS WELLS | 10 805 | 6 713 | 15 977 | 1 541 | 929 | 5 300 |
| 14 | NONMETALLIC MINERALS MINING | 344 897 | ² 198 535 | ¹ 498 188 | ³ 45 244 | 25 139 | 259 177 |
| | MINERAL INDUSTRIES | 311 376 | 185 726 | 452 582 | 44 520 | 22 389 | 229 402 |
| | INCLUDED IN MANUFACTURES | 33 521 | ² 12 809 | ¹ 45 606 | ³ 724 | ¹² 750 | 29 775 |
| 1411 | DIMENSION STONE | 10 974 | 7 185 | 17 340 | 819 | 1 978 | 8 302 |
| | MINERAL INDUSTRY | 1 359 | 638 | 1 902 | 95 | 429 | 1 809 |
| | INCLUDED IN MANUFACTURES | 9 615 | 6 547 | 15 438 | 724 | 1 549 | 6 493 |
| | DIMENSION GRANITE | 7 512 | 5 650 | 12 822 | 340 | 1 123 | 5 040 |
| | MINERAL INDUSTRY | 727 | 422 | 1 108 | 41 | 324 | 1 408 |
| | INCLUDED IN MANUFACTURES | 6 785 | 5 228 | 11 714 | 299 | 799 | 3 632 |
| 1421 | CRUSHED AND BROKEN STONE | 132 406 | ² 66 379 | ¹ 185 505 | (NA) | 8 592 | 93 924 |
| | MINERAL INDUSTRY | 119 744 | 61 906 | 168 370 | 13 280 | 8 180 | 84 591 |
| | INCLUDED IN MANUFACTURES | 12 662 | ² 4 473 | ¹ 17 135 | (NA) | ¹ 412 | 9 333 |
| | CRUSHED AND BROKEN LIMESTONE QUARRIES | 70 703 | ² 30 451 | ¹ 94 665 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 58 578 | 27 006 | 79 095 | 6 489 | 4 662 | 48 604 |
| | INCLUDED IN MANUFACTURES | 12 125 | ² 3 445 | ¹ 15 570 | (NA) | (NA) | (NA) |
| 1441 | SAND AND GRAVEL | 55 669 | ² 24 567 | ¹ 72 679 | (NA) | 4 422 | 49 395 |
| | MINERAL INDUSTRY | 51 869 | 24 110 | 68 422 | 7 557 | 4 193 | 43 522 |
| | INCLUDED IN MANUFACTURES | 3 800 | ² 457 | ¹ 4 257 | (NA) | 1229 | 5 873 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 44 536 | 21 169 | 58 966 | 6 739 | ⁴ 3 654 | ⁴ 37 961 |
| | GLASS SAND SUBINDUSTRY | 6 573 | 2 115 | 7 968 | 720 | ⁵ 539 | ⁵ 5 561 |
| | INDUSTRIAL SAND, N.E.C. ¹ SUBINDUSTRY | 760 | 826 | 1 488 | 98 | (⁴) | (⁴) |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRY | 59 311 | 29 494 | 80 680 | 8 125 | (NA) | (NA) |
| 1453 | FIRE CLAY | 1 669 | ² 263 | ¹ 1 928 | (NA) | ¹ 134 | 800 |
| 1454 | FULLER'S EARTH | 8 748 | 4 904 | 12 494 | 1 158 | 594 | 5 482 |
| 1459 | CLAY AND RELATED MINERALS | 9 226 | ² 4 259 | ¹ 12 490 | (NA) | 806 | 10 920 |
| | MINERAL INDUSTRY | 4 356 | 3 291 | 6 652 | 995 | 493 | 4 493 |
| | INCLUDED IN MANUFACTURES | 4 870 | ² 968 | ¹ 5 838 | (NA) | ¹ 313 | 6 427 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 69 854 | 65 686 | 120 980 | 14 560 | 3 753 | 51 916 |
| 1472 | BARITE | 2 113 | 878 | 2 708 | 283 | (NA) | (NA) |
| 1481 | NONMETALLIC MINERAL SERVICES | 818 | 380 | 1 131 | 67 | 362 | 1 052 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. ¹ MINERAL INDUSTRY | 8 421 | 3 512 | 11 097 | 836 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

⁴Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

⁵Represents the glass sand and molding sand subindustries. No establishments in the molding sand subindustry were reported for 1963.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ² of primary products by establishment classified in-- | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|----------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 699 476 | 307 651 | 247 373 | 55 261 | 89 191 | 136 190 | 22 595 | 113 595 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 8 143 | 3 869 | 2 387 | 573 | 1 314 | 1 377 | 131 | 1 246 | (x) | (x) | (x) | (x) |
| 109 | MISCELLANEOUS METAL ORES. . | 3 680 | ² 2 748 | (³) | 286 | 646 | 596 | - | 596 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING. . . . | 354 355 | 177 206 | 107 652 | 21 758 | 47 739 | 60 338 | 2 477 | 57 861 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 350 067 | 174 802 | 107 652 | 20 990 | 46 623 | 59 289 | 2 477 | 56 812 | 164 232 | 778 470 | - | - |
| 1213 | BITUMINOUS COAL MINING SERVICES | 4 288 | 2 404 | - | 768 | 1 116 | 1 049 | - | 1 049 | (x) | 8 979 | (x) | - |
| 13 | OIL AND GAS EXTRACTION. . . . | 151 252 | 18 377 | 103 470 | 23 407 | 5 998 | 29 955 | 18 080 | 11 875 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 6 713 | 4 827 | - | 828 | 1 058 | 1 541 | 7 | 1 534 | (x) | ⁷ 14 519 | (x) | (⁷) |
| 14 | NONMETALLIC MINERALS MINING . | 185 726 | 108 199 | 33 864 | 9 523 | 34 140 | 44 520 | 1 907 | 42 613 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . | 61 906 | 42 894 | 1 567 | 5 488 | 11 957 | 13 280 | 167 | 13 113 | 100 196 | 162 246 | ⁸ 6 190 | ⁸ 9 038 |
| | CRUSHED AND BROKEN LIMESTONE. | 27 006 | 17 874 | 1 371 | 2 738 | 5 023 | 6 489 | 66 | 6 423 | 50 087 | 74 890 | ⁹ 12 822 | ⁹ 15 548 |
| 1441 | SAND AND GRAVEL | 24 110 | 16 849 | 753 | 1 531 | 4 977 | 7 557 | 64 | 7 493 | 51 677 | ¹⁰ 70 074 | ⁹ 4 750 | (¹⁰) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY . . . | 21 169 | 14 395 | 753 | 1 493 | 4 528 | 6 739 | 63 | 6 676 | 49 613 | ¹⁰ 61 096 | ⁹ 4 727 | (¹⁰) |
| | GLASS SAND SUBINDUSTRY. . . | 2 115 | 1 741 | - | 10 | 364 | 720 | - | 720 | 1 234 | (D) | (D) | (D) |
| 145 | CLAY AND RELATED MINERALS . | 29 494 | 22 488 | 320 | 1 360 | 5 326 | 8 125 | 654 | 7 471 | (x) | (x) | (x) | (x) |
| 1454 | FULLER'S EARTH. | 4 904 | 3 743 | - | 360 | 801 | 1 158 | - | 1 158 | 417 | 9 692 | - | - |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 3 291 | ² 2 560 | (³) | 18 | 713 | 995 | 14 | 981 | 890 | ¹¹ 2 881 | ⁹ 7 099 | ⁹ 5 838 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 65 686 | 22 826 | 30 940 | 865 | 11 055 | 14 560 | 968 | 13 592 | (x) | (x) | (x) | (x) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 3 512 | 2 373 | 270 | 173 | 696 | 836 | 50 | 786 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁵Represents millions of cubic feet of natural gas shipped.

⁶Represents net shipments of natural gas liquids only. The quantity is in thousands of barrels.

⁷Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁸Includes figures for minerals produced and used in the same establishment in making manufactured products, except hydraulic cement. The value of such products was estimated.

⁹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

¹⁰Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 9.

¹¹Represents gross shipments.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|----------------------|----------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 4 215 | 4 022 | 2 896 | 1 880 | 239 | 777 | 1 004 | 235 | 675 | 94 | 122 | 193 |
| | NUMBER OF EMPLOYEES..... | ² 79 316 | (D) | ² 24 338 | ² 8 514 | 1 581 | 4 243 | (D) | 27 233 | 19 401 | (D) | 2 066 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 992 461 | (D) | ² 219 098 | ² 131 758 | 18 504 | 68 836 | (D) | 360 311 | 272 332 | (D) | 48 924 | (D) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 33 | 30 | 10 | 2 | 8 | - | 16 | 3 | 13 | - | 4 | 3 |
| | NUMBER OF EMPLOYEES..... | ² 1 093 | ² 1 086 | ² 58 | (D) | (D) | - | 971 | 405 | 566 | - | 57 | 7 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 13 899 | ² 13 902 | ² 646 | (D) | (D) | - | 12 190 | 3 366 | 8 824 | - | 1 066 | (³) |
| 109 | MISCELLANEOUS METAL ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 6 | 6 | - | - | - | - | 5 | - | 5 | - | 1 | - |
| | NUMBER OF EMPLOYEES..... | 490 | 490 | - | - | - | - | (D) | - | (D) | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 095 | 8 095 | - | - | - | - | (D) | - | (D) | - | (D) | - |
| 12 | BITUMINOUS COAL & LIGNITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 2 390 | 2 380 | 2 015 | 1 877 | 79 | 59 | 293 | 221 | 23 | 49 | 72 | 10 |
| | NUMBER OF EMPLOYEES..... | 52 941 | 52 876 | 20 316 | 18 381 | (D) | (D) | 31 628 | (D) | 299 | (D) | 932 | 65 |
| | VALUE ADDED IN MINING.....\$1,000.. | 602 800 | 602 837 | 154 510 | 129 811 | (D) | (D) | 435 767 | (D) | 4 405 | (D) | 12 560 | (³) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 906 | 741 | 716 | - | - | 716 | - | - | - | - | 25 | 165 |
| | NUMBER OF EMPLOYEES..... | 3 556 | 3 347 | (D) | - | - | (D) | - | - | - | - | (D) | 209 |
| | VALUE ADDED IN MINING.....\$1,000.. | 65 204 | 66 437 | (D) | - | - | (D) | - | - | - | - | (D) | (³) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 886 | 871 | 155 | 1 | 152 | 2 | 695 | 11 | 639 | 45 | 21 | 15 |
| | NUMBER OF EMPLOYEES..... | 21 726 | 21 649 | (D) | (D) | 795 | (D) | 19 955 | (D) | 18 536 | (D) | (D) | 77 |
| | VALUE ADDED IN MINING.....\$1,000.. | 310 558 | 309 370 | (D) | (D) | 8 815 | (D) | 276 567 | (D) | 259 103 | (D) | (D) | 1 188 |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 342 | 342 | 16 | - | 16 | - | 316 | 10 | 303 | 3 | 10 | - |
| | NUMBER OF EMPLOYEES..... | 8 700 | 8 700 | 177 | - | 177 | - | 8 279 | (D) | 7 567 | (D) | 244 | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 119 744 | 119 744 | 3 387 | - | 3 387 | - | 111 982 | (D) | 103 102 | (D) | 4 375 | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 357 | 352 | 69 | - | 67 | 2 | 278 | - | 238 | 40 | 5 | 5 |
| | NUMBER OF EMPLOYEES..... | 4 032 | (D) | (D) | - | (D) | (D) | 3 672 | - | 3 157 | 515 | 112 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 51 869 | (D) | (D) | - | (D) | (D) | 48 094 | - | 41 130 | 6 954 | 1 049 | (D) |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 63 | 59 | 13 | - | 13 | - | 46 | - | 46 | - | - | 4 |
| | NUMBER OF EMPLOYEES..... | 4 249 | 4 219 | 85 | - | 85 | - | 4 134 | - | 4 134 | - | - | 30 |
| | VALUE ADDED IN MINING.....\$1,000.. | 59 311 | 58 576 | 757 | - | 757 | - | 57 819 | - | 57 819 | - | - | 735 |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 40 | 38 | 7 | 1 | 6 | - | 25 | - | 25 | - | 6 | 2 |
| | NUMBER OF EMPLOYEES..... | 3 493 | (D) | (D) | (D) | 27 | - | 2 908 | - | 2 908 | - | 440 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 69 854 | (D) | (D) | (D) | 226 | - | 50 786 | - | 50 876 | - | 16 730 | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Includes data for one oil and gas service establishment in Maryland.

³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

(For county statistics, see table 3 of the individual State reports)

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.
Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

EAST SOUTH CENTRAL

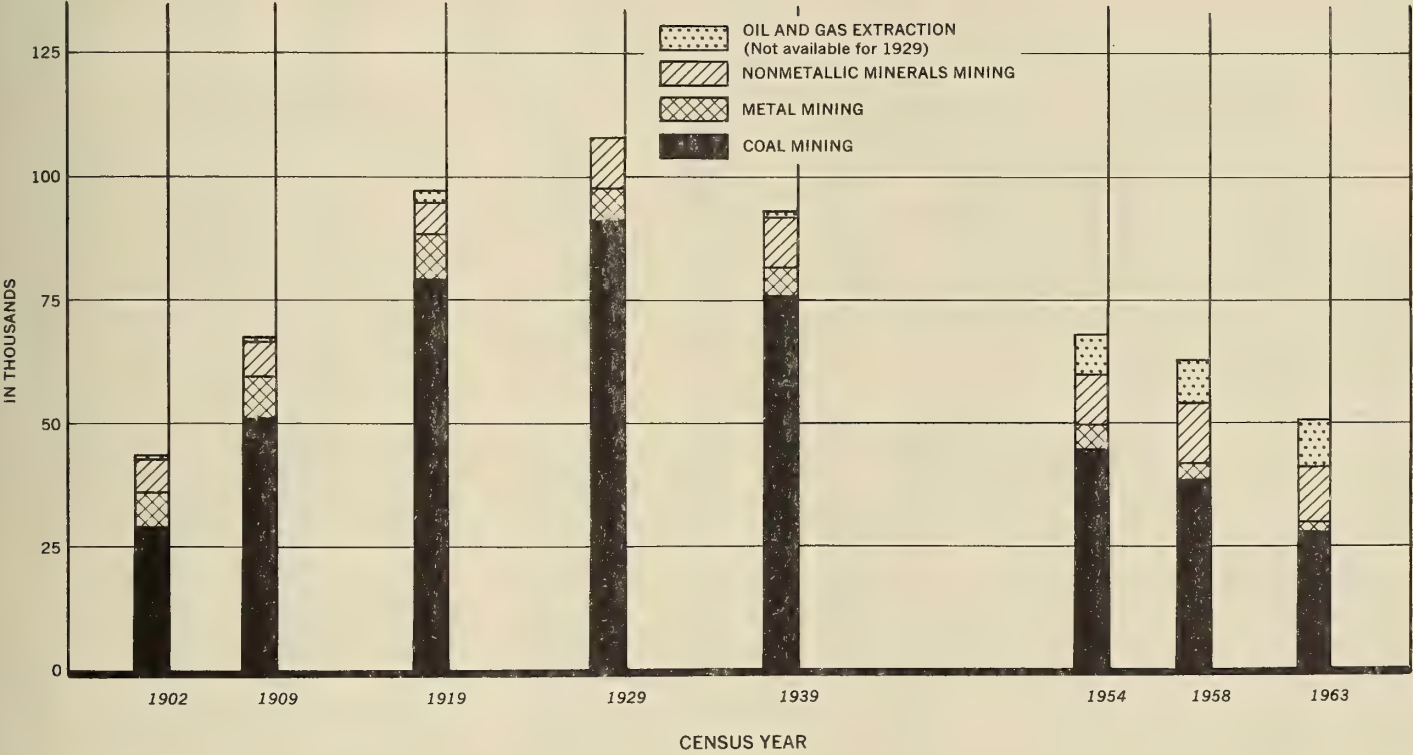


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|---|-----------------------------------|----------------------|-------------------------------|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | |
| | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 3 309 | 563 | 48 829 | 239 683 | 42 869 | 80 663 | 200 999 | 746 996 | |
| 1958 | 3 215 | 575 | 62 083 | 263 721 | 54 294 | 93 251 | 220 315 | 644 702 | |
| 1954 | 3 073 | 581 | 66 628 | 240 006 | 60 615 | 104 304 | 206 919 | 1521 131 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 3 424 | 584 | 50 334 | 245 526 | 44 273 | 83 412 | 206 520 | 763 016 | |
| 1958 | 3 311 | 595 | 63 755 | 269 247 | 55 890 | 96 375 | 225 400 | 665 287 | |
| 1954 ² | 3 159 | 599 | 68 079 | 244 415 | 61 988 | 107 058 | 210 951 | 1533 168 | |
| 1939 ³ | 41 423 | (NA) | 93 949 | 96 023 | 89 522 | 134 469 | 86 990 | 130 531 | |
| 1919 ⁵ | 1 418 | (NA) | 97 565 | 111 745 | 90 680 | (NA) | 98 839 | 144 956 | |
| 1909 ⁵ | 935 | (NA) | 66 700 | 33 146 | 63 014 | (NA) | 29 490 | 40 562 | |
| 1902 ⁶ | 41 270 | (NA) | 43 383 | 22 787 | 740 759 | (NA) | 20 446 | 30 392 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 2 373 | 486 | 41 513 | 199 360 | 37 257 | 69 697 | 173 376 | 473 461 | |
| 1958 | 2 396 | 489 | 54 045 | 226 618 | 47 835 | 80 595 | 192 848 | 458 158 | |
| 1954 ² | 2 432 | 509 | 60 392 | 216 737 | 55 322 | 94 605 | 188 628 | 1383 599 | |
| 1939 ³ | 41 258 | (NA) | 92 001 | 93 963 | 87 789 | 131 893 | 85 380 | 121 684 | |
| 1929 ⁸ | 952 | (NA) | 108 045 | 117 610 | 102 160 | (NA) | 105 042 | 151 384 | |
| 1919 ⁵ | 1 213 | (NA) | 94 968 | 108 249 | 88 549 | (NA) | 96 180 | 126 231 | |
| 1909 ⁵ | 847 | (NA) | 66 416 | 32 968 | 62 787 | (NA) | 29 365 | 39 944 | |
| 1902 ⁶ | 41 152 | (NA) | 43 086 | 22 562 | 740 597 | (NA) | 20 323 | 30 576 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | (million) | (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 188 971 | 134 563 | 79 867 | 73 743 | 1 103 667 | 120 473 | 13 875 | 324 | 3 015 |
| 1958 | 181 075 | 130 558 | 64 692 | 55 421 | 976 688 | 99 670 | 12 104 | 223 | (NA) |
| 1954 | 128 739 | 139 311 | 41 495 | 44 401 | 706 066 | 69 011 | 9 853 | 163 | 1 973 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | ¹⁰ 193 762 | 135 010 | ¹⁰ 79 871 | ¹¹ 74 381 | 1 124 847 | ¹¹ 121 193 | ¹¹ 13 875 | 324 | ¹¹ 3 015 |
| 1958 | ¹⁰ 184 937 | 130 748 | ¹⁰ 64 695 | ¹¹ 55 564 | 1 001 397 | ¹¹ 99 834 | ¹¹ 12 128 | 217 | (NA) |
| 1954 ² | 131 679 | ¹³ 59 502 | ¹⁰ 41 500 | ¹¹ 44 491 | ¹² 21 230 | ¹¹ 69 112 | ¹¹ 9 867 | 159 | ¹¹ 1 987 |
| 1939 ³ | 25 930 | (NA) | 2 020 | (NA) | 158 481 | (NA) | 5 742 | 64 | 737 |
| 1919 ⁵ | 32 974 | 41 | 3 674 | (NA) | 181 645 | (NA) | ¹² 14 315 | 158 | 353 |
| 1909 ⁵ | 7 392 | 170 | 1 020 | (NA) | 49 144 | (NA) | (NA) | (NA) | 180 |
| 1902 ⁶ | 4 174 | (NA) | 869 | (NA) | 35 435 | (NA) | (NA) | (NA) | 67 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | ¹⁰ 140 625 | 72 820 | ¹⁰ 21 010 | ¹¹ 57 406 | 703 613 | ¹¹ 61 709 | ¹¹ 6 951 | 194 | 2 245 |
| 1958 | ¹⁰ 138 166 | 102 718 | ¹⁰ 17 648 | ¹¹ 37 459 | 711 374 | ¹¹ 42 775 | ¹¹ 5 627 | 118 | (NA) |
| 1954 ² | ¹⁰ 103 538 | ¹³ 57 545 | ¹⁰ 10 405 | ¹¹ 27 358 | ¹² 53 066 | ¹¹ 29 381 | ¹¹ 4 025 | 73 | 1 537 |
| 1939 ³ | 24 863 | (NA) | 579 | (NA) | 147 126 | (NA) | 5 265 | 60 | 711 |
| 1929 ⁸ | 32 113 | (NA) | 314 | 6 024 | 183 811 | (NA) | ¹² 8 768 | 86 | 683 |
| 1919 ⁵ | 28 675 | - | 3 409 | (NA) | 158 315 | (NA) | ¹² 13 942 | 157 | 339 |
| 1909 ⁵ | 7 214 | 170 | 924 | (NA) | 48 252 | (NA) | (NA) | (NA) | 176 |
| 1902 ⁶ | 3 841 | (NA) | 479 | (NA) | 34 896 | (NA) | (NA) | (NA) | 64 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry. For minerals received for preparation at natural gas liquids plants, excludes the cost of natural gas processed, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. Except for number of establishments, excludes data for one service operation and one non-producing operation. For "Excluding oil and gas extraction industries," except for number of establishments, includes data for 5 nonproducing operations in the Crude Petroleum and Natural Gas Industry.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand, gravel, common clay, and shale mining operations and stone quarries operated as parts of cement and lime plants. In 1939, there were 46 such clay and shale mines with products valued at \$362 thousand. In 1929, there were 53 such sand and gravel establishments with products valued at nearly \$6 million, and 19 such stone operations, 12 of which had products valued at \$1,088 thousand. For 1919, excludes data for 3 nonproducing establishments and, except for number of establishments, excludes data for 2 clay mines in Mississippi. For "Excluding oil

and gas extraction industries," except for number of establishments, in 1919 includes data for 3 establishments in the Crude Petroleum and Natural Gas Industry, and in 1909, for one such establishment.

⁶Excludes data for sand, gravel, common clay, and shale operations. Includes data for 2 cement plants and for lime plants producing lime valued at \$488 thousand. For "Excluding oil and gas extraction industries," except for number of establishments, includes data for 2 operations in the Crude Petroleum and Natural Gas Industry in Tennessee.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Excludes data for common clay and shale mining operations. In 1939, there were 46 such mines with products valued at \$362 thousand.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for the crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1939, the quantity of purchased electric energy amounted to nearly 9 percent of the total kwh. equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 3 424 | 584 | 50 334 | 245 526 | 44 273 | 33 412 | 206 520 |
| | MINERAL INDUSTRIES | 3 309 | 563 | 48 829 | 239 683 | 42 869 | 80 663 | 200 999 |
| | INCLUDED IN MANUFACTURES | 115 | 21 | 1 505 | 15 843 | 1 404 | 2 749 | 5 521 |
| 10 | METAL MINING | 45 | 19 | 1 912 | 10 597 | 1 642 | 3 472 | 8 668 |
| 1011 | IRON ORES | 29 | 10 | 926 | 5 127 | 814 | 1 723 | 4 246 |
| 1031 | LEAD AND ZINC ORES (ZINC ORES) | 9 | 8 | 914 | 5 125 | 766 | 1 622 | 4 127 |
| 12 | BITUMINOUS COAL MINING | 1 674 | 282 | 28 372 | 140 318 | 25 787 | 44 891 | 123 942 |
| 1211 | BITUMINOUS COAL | 1 658 | 280 | 28 240 | 139 755 | 25 662 | 44 686 | 123 414 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 16 | 2 | 132 | 563 | 125 | 205 | 528 |
| 13 | OIL AND GAS EXTRACTION | 1 051 | 98 | 8 821 | 46 166 | 7 016 | 13 715 | 33 144 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 693 | 42 | 4 592 | 26 514 | 3 133 | 6 095 | 15 621 |
| | CRUDE PETROLEUM | 625 | 38 | 3 711 | 21 978 | 2 439 | 4 837 | 12 381 |
| | NATURAL GAS | 68 | 4 | 881 | 4 536 | 694 | 1 258 | 3 240 |
| 1321 | NATURAL GAS LIQUIDS | 11 | 5 | 230 | 1 605 | 193 | 388 | 1 261 |
| 138 | OIL AND GAS FIELD SERVICES | 347 | 51 | 3 999 | 18 047 | 3 690 | 7 232 | 16 262 |
| 14 | NONMETALLIC MINERALS MINING | 654 | 185 | 11 229 | 48 445 | 9 828 | 21 334 | 40 766 |
| | MINERAL INDUSTRIES | 539 | 164 | 9 724 | 42 602 | 8 424 | 18 585 | 35 245 |
| | INCLUDED IN MANUFACTURES | 115 | 21 | 1 505 | 15 843 | 1 404 | 2 749 | 5 521 |
| 141 | DIMENSION STONE | 37 | 9 | 999 | 2 999 | 883 | 1 661 | 2 636 |
| | MINERAL INDUSTRY | 26 | 3 | 242 | 569 | 227 | 377 | 528 |
| | INCLUDED IN MANUFACTURES | 11 | 6 | 757 | 2 430 | 656 | 1 284 | 2 108 |
| 142 | CRUSHED AND BROKEN STONE | 246 | 102 | 5 031 | 21 905 | 4 446 | 9 993 | 18 390 |
| | MINERAL INDUSTRY | 223 | 93 | 4 629 | 19 776 | 4 044 | 9 189 | 16 261 |
| | INCLUDED IN MANUFACTURES | 23 | 9 | 1 402 | 12 129 | 1 402 | 804 | 2 129 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: | | | | | | | |
| | MINERAL SUBINDUSTRY | 211 | 90 | 4 283 | 18 393 | 3 732 | 8 521 | 15 065 |
| 144 | SAND AND GRAVEL | 213 | 39 | 2 419 | 10 293 | 2 037 | 4 614 | 8 501 |
| | MINERAL INDUSTRY | 187 | 36 | 2 305 | 9 851 | 1 923 | 4 388 | 8 059 |
| | INCLUDED IN MANUFACTURES | 26 | 3 | 1 114 | 1 442 | 1 114 | 226 | 442 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 172 | 34 | 2 132 | 9 134 | 1 778 | 4 077 | 7 511 |
| | GLASS SAND AND INDUSTRIAL SAND, N.E.C., SUBINDUSTRIES | 6 | 2 | 113 | 502 | 87 | 192 | 343 |
| | MOLDING SAND SUBINDUSTRY | 9 | - | 60 | 215 | 58 | 119 | 205 |
| 145 | CLAY AND RELATED MINERALS | 106 | 19 | 996 | 4 075 | 887 | 1 833 | 3 276 |
| | MINERAL INDUSTRY | 51 | 16 | 764 | 3 233 | 655 | 1 398 | 2 434 |
| | INCLUDED IN MANUFACTURES | 55 | 3 | 1 232 | 1 842 | 1 232 | 435 | 842 |
| 1452 | BENTONITE | 9 | 3 | 172 | 580 | 149 | 316 | 462 |
| 1453 | FIRE CLAY | 20 | 4 | 147 | 569 | 136 | 264 | 494 |
| | MINERAL INDUSTRY | 17 | 3 | 111 | 427 | 100 | 193 | 352 |
| | INCLUDED IN MANUFACTURES | 3 | 1 | 136 | 1 142 | 136 | 71 | 142 |
| | CLAY AND RELATED MINERALS, N.E.C. | 65 | 5 | 293 | 1 219 | 276 | 550 | 1 058 |
| | MINERAL INDUSTRY | 13 | 3 | 97 | 519 | 80 | 186 | 358 |
| | INCLUDED IN MANUFACTURES | 52 | 2 | 1 196 | 1 700 | 1 196 | 364 | 700 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 36 | 13 | 1 550 | 8 280 | 1 369 | 2 812 | 7 246 |
| 1475 | PHOSPHATE ROCK | 20 | 8 | 674 | 4 005 | 622 | 1 325 | 3 656 |
| 1481 | NONMETALLIC MINERALS SERVICES | 10 | 2 | 118 | 477 | 96 | 202 | 355 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 6 | 1 | 116 | 416 | 110 | 219 | 362 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 763 016 | ² 483 024 | ¹ 1 124 847 | ³ 121 193 | 63 755 | 665 287 |
| | MINERAL INDUSTRIES | 746 996 | 477 144 | 1 103 667 | 120 473 | 62 083 | 644 702 |
| | INCLUDED IN MANUFACTURES | 16 020 | ² 5 880 | ¹ 21 180 | ³ 720 | ¹ 1 672 | 20 585 |
| 10 | METAL MINING | 21 419 | 11 037 | 29 675 | 2 781 | 3 755 | 48 656 |
| 1011 | IRON ORES | 11 019 | 3 823 | 14 451 | 391 | (NA) | (NA) |
| 1031 | LEAD AND ZINC ORES (ZINC ORES) | 9 564 | 6 606 | 13 855 | 2 315 | 844 | (NA) |
| 12 | BITUMINOUS COAL MINING | 308 917 | 206 795 | 477 946 | 37 766 | 38 684 | 304 972 |
| 1211 | BITUMINOUS COAL | 307 202 | 205 851 | 475 789 | 37 264 | 38 511 | 302 832 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 1 715 | 944 | 2 157 | 502 | 173 | 2 140 |
| 13 | OIL AND GAS EXTRACTION | 289 555 | 191 163 | 421 234 | 59 484 | 9 710 | 207 129 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 237 310 | 95 388 | 281 517 | 51 181 | 5 393 | 170 708 |
| | CRUDE PETROLEUM | 218 075 | 88 825 | 261 828 | 45 072 | 4 399 | 146 556 |
| | NATURAL GAS | 19 235 | 6 563 | 19 689 | 6 109 | 994 | 24 152 |
| 1321 | NATURAL GAS LIQUIDS | 14 050 | 64 551 | 77 806 | 795 | 230 | 9 011 |
| 138 | OIL AND GAS FIELD SERVICES | 38 195 | 31 224 | 61 911 | 7 508 | 4 087 | 27 410 |
| 14 | NONMETALLIC MINERALS MINING | 143 125 | ² 74 029 | ¹ 95 992 | ³ 21 162 | 11 606 | 104 530 |
| | MINERAL INDUSTRIES | 127 105 | 68 149 | 174 812 | 20 442 | 9 934 | 83 945 |
| | INCLUDED IN MANUFACTURES | 16 020 | ² 5 880 | ¹ 21 180 | ³ 720 | ¹ 1 672 | 20 585 |
| 141 | DIMENSION STONE | 3 982 | 2 832 | 6 044 | 770 | 1 277 | 6 076 |
| | MINERAL INDUSTRY | 1 025 | 263 | 1 238 | 50 | 304 | 1 306 |
| | INCLUDED IN MANUFACTURES | 2 957 | 2 569 | 4 806 | 720 | 973 | 4 770 |
| 142 | CRUSHED AND BROKEN STONE | 71 544 | ² 31 524 | ¹ 91 637 | (NA) | 4 487 | 45 548 |
| | MINERAL INDUSTRY | 63 162 | 29 367 | 81 098 | 11 431 | 4 043 | 37 868 |
| | INCLUDED IN MANUFACTURES | 8 382 | ² 2 157 | ¹ 10 539 | (NA) | ¹ 444 | 7 680 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: | | | | | | |
| | MINERAL SUBINDUSTRY | 60 134 | 27 187 | 77 349 | 9 972 | 3 858 | 36 584 |
| 144 | SAND AND GRAVEL | 25 172 | ² 12 818 | ¹ 34 577 | (NA) | 2 100 | 19 540 |
| | MINERAL INDUSTRY | 23 160 | 12 550 | 32 297 | 3 413 | 2 030 | 17 848 |
| | INCLUDED IN MANUFACTURES | 2 012 | ² 268 | ¹ 2 280 | (NA) | ¹ 70 | 1 692 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 21 095 | 11 628 | 29 563 | 3 160 | ⁴ 1 893 | ⁴ 16 675 |
| | GLASS SAND AND INDUSTRIAL SAND: N.E.C. SUBINDUSTRIES | 1 410 | 584 | 1 775 | 219 | ⁴ 137 | ⁴ 1 173 |
| | MOLDING SAND SUBINDUSTRY | 655 | 338 | 959 | 34 | | |
| 145 | CLAY AND RELATED MINERALS | 13 749 | ² 7 109 | ¹ 19 280 | (NA) | 4 008 | 16 637 |
| | MINERAL INDUSTRY | 11 080 | 6 223 | 15 725 | 1 578 | 3 380 | 9 400 |
| | INCLUDED IN MANUFACTURES | 2 669 | ² 886 | ¹ 3 555 | (NA) | ¹ 628 | 7 237 |
| 1452 | BENTONITE | 2 588 | 1 209 | 3 385 | 412 | (NA) | (NA) |
| 1453 | FIRE CLAY | 1 859 | ² 1 855 | ¹ 3 161 | (NA) | 322 | 2 469 |
| | MINERAL INDUSTRY | 1 505 | 1 700 | 2 652 | 553 | 296 | 1 711 |
| | INCLUDED IN MANUFACTURES | 354 | ² 155 | ¹ 509 | (NA) | ¹ 26 | 758 |
| | CLAY AND RELATED MINERALS: N.E.C. | 3 443 | ² 1 782 | ¹ 5 071 | (NA) | 305 | 7 401 |
| | MINERAL INDUSTRY | 1 128 | 1 051 | 12 025 | 154 | 149 | 922 |
| | INCLUDED IN MANUFACTURES | 2 315 | ² 731 | ¹ 3 046 | (NA) | ¹ 156 | 6 479 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 26 232 | 18 346 | 41 172 | 3 406 | (NA) | (NA) |
| 1475 | PHOSPHATE ROCK | 14 533 | 11 301 | 23 440 | 2 394 | 760 | 8 723 |
| 1481 | NONMETALLIC MINERALS SERVICES | 1 027 | 886 | 1 713 | 200 | 73 | 455 |
| 149 | MISCELLANEOUS MINERALS: N.E.C. | 1 419 | 514 | 1 569 | 364 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁴Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ¹ of primary products by establishment classified in-- | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-------------------------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES | 477 144 | 188 971 | 134 563 | 79 867 | 73 743 | 120 473 | 33 294 | 87 179 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 11 037 | 6 510 | 2 366 | 887 | 1 274 | 2 781 | 1 151 | 1 630 | (x) | (x) | (x) | (x) |
| 1011 | IRON ORES | 3 823 | 3 151 | - | 336 | 336 | 391 | 65 | 326 | ³ 2 110 | ³ 14 440 | (D) | (D) |
| 1031 | LEAD AND ZINC ORES. | 6 606 | ⁴ 5 218 | (⁴) | 516 | 872 | 2 315 | 1 086 | 1 229 | ⁵ 2 820 | (D) | (D) | (D) |
| 12 | BITUMINOUS COAL MINING. | 206 795 | 86 628 | 66 385 | 11 887 | 41 895 | 37 766 | 1 306 | 36 460 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 205 851 | 86 156 | 66 385 | 11 833 | 41 477 | 37 264 | 1 306 | 35 958 | 96 049 | 410 155 | - | - |
| 13 | OIL AND GAS EXTRACTION. | 191 163 | 53 137 | 62 190 | 58 861 | 16 975 | 59 484 | 30 323 | 29 161 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 95 388 | 32 327 | - | 50 940 | 12 121 | 51 181 | 27 771 | 23 410 | (x) | 279 644 | (x) | 5 786 |
| | CRUDE PETROLEUM | 88 825 | 30 285 | - | 47 542 | 10 998 | 45 072 | 24 620 | 20 452 | ⁶ 84 569 | 232 858 | ⁶ 2 751 | 7 178 |
| | NATURAL GAS | 6 563 | 2 042 | - | 3 398 | 1 123 | 6 109 | 3 151 | 2 958 | ⁷ 92 015 | 18 010 | ⁷ 145 274 | 27 384 |
| 1321 | NATURAL GAS LIQUIDS | 64 551 | 2 010 | 62 190 | 146 | 205 | 795 | - | 795 | ⁸ 5 931 | ⁸ 12 285 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 31 224 | 18 800 | - | 7 775 | 4 649 | 7 508 | 2 552 | 4 956 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING | 68 149 | 42 696 | 3 622 | 8 232 | 13 599 | 20 442 | 514 | 19 928 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. | 29 367 | 18 624 | 1 793 | 1 727 | 7 223 | 11 431 | 308 | 11 123 | 55 096 | 75 609 | ⁹ 7 160 | ⁹ 8 833 |
| | CRUSHED AND BROKEN LIME-STONE. | 27 187 | 17 810 | 1 662 | 1 658 | 6 057 | 9 972 | 296 | 9 676 | 54 608 | 72 837 | ¹⁰ 7 114 | ¹⁰ 8 626 |
| 1441 | SAND AND GRAVEL | 12 550 | 8 737 | 421 | 1 077 | 2 315 | 3 413 | 71 | 3 342 | 25 040 | ⁹ 11 ³ 1 924 | ⁹ 1 779 | (¹¹) |
| | CONSTRUCTION SAND AND GRAVEL | 11 628 | 8 163 | 421 | 816 | 2 228 | 3 160 | 71 | 3 089 | 24 316 | ¹¹ 12 ² 9 835 | ¹² 1 726 | (¹¹) |
| 145 | CLAY AND RELATED MINERALS | 6 223 | 4 412 | - | 509 | 1 302 | 1 578 | 78 | 1 500 | (x) | (x) | (x) | (x) |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 18 346 | ⁹ 969 | 1 408 | 4 507 | 2 462 | 3 406 | 49 | 3 357 | (x) | (x) | (x) | (x) |
| 1475 | PHOSPHATE ROCK. | 11 301 | ⁴ 4 813 | (⁴) | 4 357 | 2 131 | 2 394 | 43 | 2 351 | 2 324 | 20 630 | - | - |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹n.e.c. Not elsewhere classified.²Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.³Represents expenditures during the year for both new and used plant and equipment.⁴Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates in Alabama only. Quantity represents thousands of long tons.⁵Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁶Represents crude ore mined.⁷Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁸Represents millions of cubic feet of natural gas shipped.⁹Represents net shipments of natural gas liquids only. Quantity figures are in thousands of barrels.¹⁰Includes figures for minerals produced and used in the same establishment in making manufactured products, except for crushed and broken stone that was used in the mineral industries. The value of such products was estimated.¹¹See footnote 9. Includes some crushed and broken stone, n.e.c. produced and used in the same establishment in making manufactured products, amounting to less than one percent of the total shown.¹²Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.¹³Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 2 934 | 2 816 | 1 977 | 1 154 | 179 | 644 | 752 | 258 | 435 | 59 | 87 | 118 |
| | NUMBER OF EMPLOYEES..... | ² 44 194 | ² 44 058 | 16 846 | 9 673 | 1 547 | 5 626 | (D) | 14 858 | 9 038 | (D) | (D) | 136 |
| | VALUE ADDED IN MINING....\$1,000.. | ² 707 086 | ² 707 847 | 338 800 | 62 236 | 25 898 | 250 666 | (D) | 159 790 | 152 243 | (D) | (D) | (³) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 43 | 40 | 15 | 3 | 12 | - | 24 | 5 | 19 | - | 1 | 3 |
| | NUMBER OF EMPLOYEES..... | ² 1 849 | ² 1 818 | (D) | (D) | (D) | - | (D) | (D) | 450 | - | (D) | 31 |
| | VALUE ADDED IN MINING....\$1,000.. | ² 21 419 | ² 21 449 | (D) | (D) | (D) | - | (D) | (D) | 4 039 | - | (D) | (³) |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 29 | 28 | 9 | - | 9 | - | 19 | 1 | 18 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 906 | (D) | 41 | - | 41 | - | (D) | (D) | (D) | - | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 11 019 | (D) | 595 | - | 595 | - | (D) | (D) | (D) | - | - | (D) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 658 | 1 655 | 1 282 | 1 149 | 78 | 55 | 312 | 231 | 55 | 26 | 61 | 3 |
| | NUMBER OF EMPLOYEES..... | 27 993 | 27 989 | 11 460 | 9 452 | (D) | (D) | 15 780 | 12 573 | 1 834 | 1 373 | 749 | 4 |
| | VALUE ADDED IN MINING....\$1,000.. | 307 202 | 307 207 | 91 885 | 60 655 | (D) | (D) | 202 376 | 129 562 | 52 181 | 20 633 | 12 946 | (³) |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 658 | 1 655 | 1 282 | 1 149 | 78 | 55 | 312 | 231 | 55 | 26 | 61 | 3 |
| | NUMBER OF EMPLOYEES..... | 27 993 | 27 989 | 11 460 | 9 452 | (D) | (D) | 15 780 | 12 573 | 1 834 | 1 373 | 749 | 4 |
| | VALUE ADDED IN MINING....\$1,000.. | 307 202 | 307 207 | 91 885 | 60 655 | (D) | (D) | 202 376 | 129 562 | 52 181 | 20 633 | 12 946 | (³) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 704 | 598 | 587 | - | - | 587 | - | - | - | - | 11 | 106 |
| | NUMBER OF EMPLOYEES..... | 4 721 | 4 628 | 4 398 | - | - | 4 398 | - | - | - | - | 230 | 93 |
| | VALUE ADDED IN MINING....\$1,000.. | 251 360 | 251 974 | 237 924 | - | - | 237 924 | - | - | - | - | 14 050 | (³) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 693 | 587 | 587 | - | - | 587 | - | - | - | - | - | 106 |
| | NUMBER OF EMPLOYEES..... | 4 491 | 4 398 | 4 398 | - | - | 4 398 | - | - | - | - | - | 93 |
| | VALUE ADDED IN MINING....\$1,000.. | 237 310 | 237 924 | 237 924 | - | - | 237 924 | - | - | - | - | - | (³) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 11 | 11 | - | - | - | - | - | - | - | - | 11 | - |
| | NUMBER OF EMPLOYEES..... | 230 | 230 | - | - | - | - | - | - | - | - | 230 | - |
| | VALUE ADDED IN MINING....\$1,000.. | 14 050 | 14 050 | - | - | - | - | - | - | - | - | 14 050 | - |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 529 | 523 | 93 | 2 | 89 | 2 | 416 | 22 | 361 | 33 | 14 | 6 |
| | NUMBER OF EMPLOYEES..... | 9 631 | 9 623 | (D) | (D) | 680 | (D) | 8 725 | (D) | 6 754 | (D) | (D) | 8 |
| | VALUE ADDED IN MINING....\$1,000.. | 127 105 | 127 217 | (D) | (D) | 5 573 | (D) | 119 265 | (D) | 96 023 | (D) | (D) | (³) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 223 | 220 | 3 | - | 3 | - | 213 | 19 | 192 | 2 | 4 | 3 |
| | NUMBER OF EMPLOYEES..... | 4 621 | 4 618 | (D) | - | (D) | - | 4 520 | (D) | 3 963 | (D) | (D) | 3 |
| | VALUE ADDED IN MINING....\$1,000.. | 63 162 | 63 275 | (D) | - | (D) | - | 62 435 | (D) | 55 999 | (D) | (D) | (³) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 187 | 187 | 27 | - | 25 | 2 | 154 | - | 123 | 31 | 6 | - |
| | NUMBER OF EMPLOYEES..... | 2 312 | 2 312 | 122 | - | (D) | (D) | 2 111 | - | (D) | (D) | 79 | - |
| | VALUE ADDED IN MINING....\$1,000.. | 23 160 | 23 160 | 834 | - | (D) | (D) | 21 384 | - | (D) | (D) | 937 | - |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 51 | 51 | 19 | - | 19 | - | 32 | 1 | 31 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 791 | 791 | 96 | - | 96 | - | 695 | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING....\$1,000.. | 11 080 | 11 080 | 390 | - | 390 | - | 10 690 | (D) | (D) | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 36 | 33 | 16 | 2 | 14 | - | 13 | 2 | 11 | - | 4 | 3 |
| | NUMBER OF EMPLOYEES..... | 1 549 | 1 544 | (D) | (D) | (D) | - | 1 296 | (D) | (D) | - | (D) | 5 |
| | VALUE ADDED IN MINING....\$1,000.. | 26 232 | 26 231 | (D) | (D) | (D) | - | 23 373 | (D) | (D) | - | (D) | 1 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for two metal mining service establishments in Tennessee.³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

(For county statistics, see table 3 of the individual State reports)

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

WEST SOUTH CENTRAL

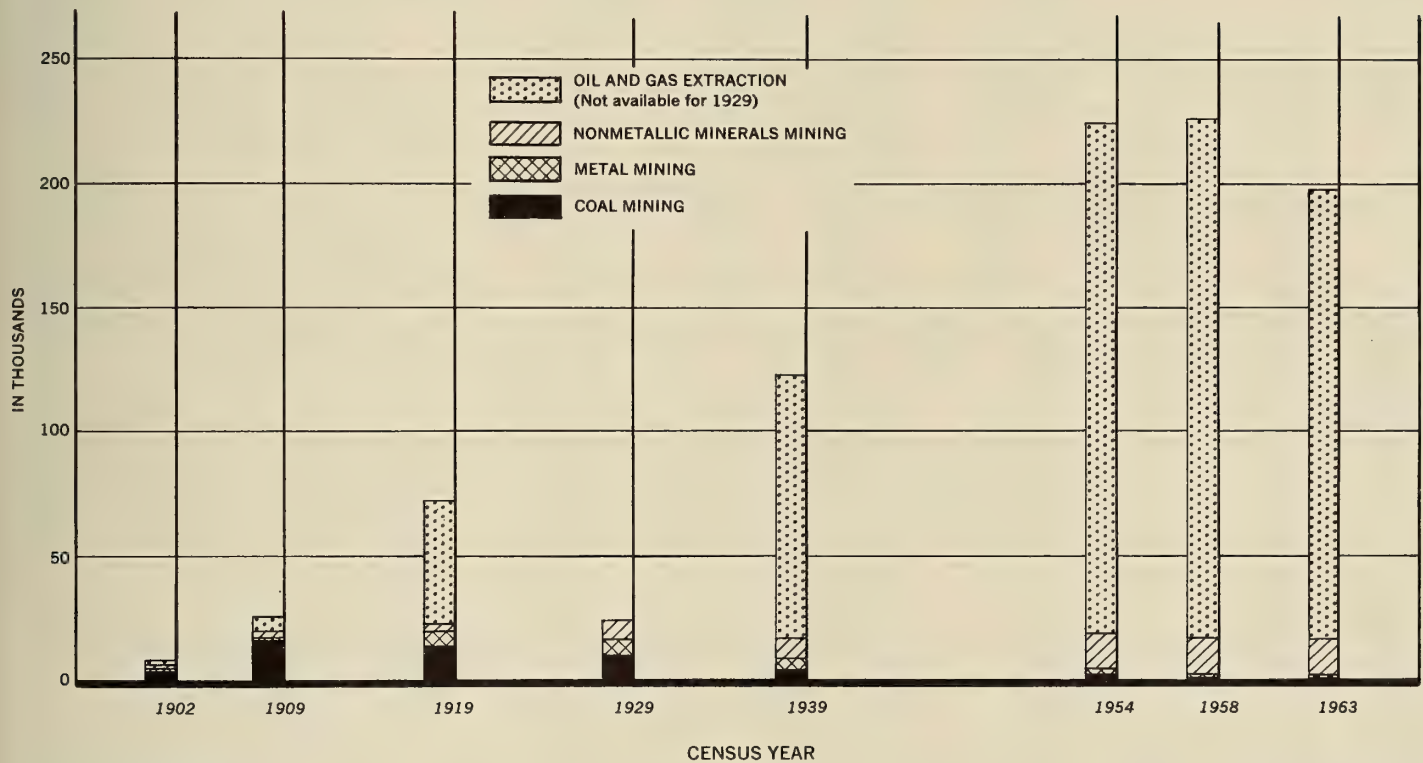


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|--|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|-----------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 112 127 | 1 745 | 196 365 | 1 271 111 | 135 900 | 287 706 | 768 333 | 7 801 797 |
| 1958 | 10 055 | 1 896 | 225 747 | 1 230 869 | 151 662 | 320 153 | 719 543 | 6 156 371 |
| 1954 | 9 179 | 1 906 | 223 679 | 1 044 616 | 165 208 | 358 039 | 688 469 | 25 209 798 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | 112 319 | 1 764 | 197 761 | 1 277 114 | 137 215 | 290 426 | 774 117 | 7 829 548 |
| 1958 | 10 219 | 1 918 | 227 204 | 1 236 195 | 153 083 | 322 911 | 724 687 | 5 183 853 |
| 1954 ³ | 9 306 | 1 938 | 225 433 | 1 049 222 | 166 957 | 361 436 | 693 048 | 25 226 592 |
| 1939 ⁴ | 5 6 252 | (NA) | 122 938 | 203 232 | 98 687 | 176 345 | 137 938 | 809 276 |
| 1919 ⁶ | 2 919 | (NA) | 72 172 | 109 758 | 60 805 | (NA) | 88 474 | 299 365 |
| 1909 ⁶ | 1 302 | (NA) | 26 129 | 18 208 | 24 028 | (NA) | 15 748 | 35 312 |
| 1902 ⁷ | 536 | (NA) | 8 532 | 5 279 | 7 044 | (NA) | 4 363 | 7 072 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | 959 | 198 | 16 007 | 81 143 | 12 964 | 28 054 | 61 150 | 285 653 |
| 1958 | 862 | 214 | 17 228 | 78 306 | 14 115 | 30 569 | 59 098 | 252 031 |
| 1954 ³ | 840 | 213 | 18 822 | 71 141 | 16 598 | 36 255 | 59 417 | 2258 312 |
| 1939 ⁴ | 626 | (NA) | 17 187 | 18 257 | 15 491 | 28 428 | 14 484 | 56 986 |
| 1929 ⁹ | 498 | (NA) | 24 201 | 31 772 | 22 314 | (NA) | 26 609 | 42 995 |
| 1919 ¹⁰ | 429 | (NA) | 23 300 | 29 000 | 20 958 | (NA) | 25 680 | 44 611 |
| 1909 ¹¹ | 363 | (NA) | 19 715 | 12 114 | 18 801 | (NA) | 11 175 | 14 157 |
| 1902 ¹² | 237 | (NA) | 6 725 | 4 049 | 6 273 | (NA) | 3 616 | 5 238 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ^{1,3} | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
|--|---|-----------------------------------|---------------|-------------------------------|--|----------------------|-------------------------------|-----------------------|--------------------------------------|
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | | | | | | | | | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 1 342 828 | 1 296 367 | 1 088 397 | 474 426 | 10 197 344 | 1 806 471 | 253 232 | 1 863 | 20 187 |
| 1958 | 1 127 309 | 634 234 | 1 067 039 | 464 944 | 7 914 441 | 1 535 456 | 237 101 | 1 563 | (NA) |
| 1954 | 918 826 | 14149 323 | 1 029 501 | 615 825 | 26 397 677 | 1 525 548 | 217 257 | 1 315 | 14 016 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 15 1 349 343 | 1 296 431 | 15 1 088 423 | 16 474 472 | 10 231 693 | 16 1 806 524 | 16 253 232 | 1 863 | 16 20 187 |
| 1958 | 15 1 132 188 | 634 354 | 15 1 067 075 | 16 464 958 | 7 946 924 | 16 1 535 504 | 16 237 109 | 1 549 | (NA) |
| 1954 ³ | 15 922 678 | 14149 323 | 15 1 029 511 | 16 615 875 | 26 418 352 | 16 1 525 579 | 16 217 268 | 1 301 | 16 14 023 |
| 1939 ⁴ | 83 045 | (NA) | 122 948 | (NA) | 1 015 269 | (NA) | 106 337 | 1 078 | 3 231 |
| 1919 ⁶ | 124 313 | 1711 026 | 48 023 | (NA) | 482 727 | (NA) | 18 22 527 | 370 | 680 |
| 1909 ⁶ | 9 541 | 17173 | 2 505 | (NA) | 47 531 | (NA) | (NA) | (NA) | 150 |
| 1902 ⁷ | 1 402 | (NA) | 1 814 | (NA) | 10 288 | (NA) | (NA) | (NA) | 24 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 15 77 558 | 8 544 | 15 8 054 | 16 15 317 | 372 561 | 16 22 564 | 16 17 197 | 1 476 | 16 1 220 |
| 1958 | 15 1 132 188 | 3 379 | 15 1 001 | 16 20 045 | 316 493 | 16 31 868 | 16 15 112 | 1 071 | (NA) |
| 1954 ³ | 15 58 994 | 27 861 | 15 492 | 16 16 746 | 2331 121 | 16 19 284 | 16 16 184 | 975 | 16 994 |
| 1939 ⁴ | 11 853 | (NA) | 420 | (NA) | 69 259 | (NA) | 5 919 | 382 | 316 |
| 1929 ⁹ | 20 842 | (NA) | 443 | 4 229 | 64 280 | (NA) | 9 787 | 439 | 243 |
| 1919 ¹⁰ | 14 094 | - | 550 | (NA) | 59 255 | (NA) | 18 5 321 | 254 | 139 |
| 1909 ¹¹ | 2 488 | - | 137 | (NA) | 16 782 | (NA) | (NA) | (NA) | 61 |
| 1902 ¹² | 674 | (NA) | 186 | (NA) | 6 098 | (NA) | (NA) | (NA) | 15 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Figures for number of establishments in 1963 are not entirely comparable with those for earlier years. For 1963, operators of oil and gas field properties were asked to make separate reports by districts for Louisiana and Texas, whereas only one report was required for each State in previous years.

²Excludes data for the Uranium-Radium-Vanadium Ores Industry. For "Minerals received for preparation," see footnote 5.

³Excludes data for sand and gravel mining operations in manufacturing establishments. ⁴Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries.

⁵Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁶Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. For 1929, there were 95 such sand and gravel establishments, with products valued at \$10,607 thousand, and 15 such stone operations (the value of products of 11 of these stone operations was \$991 thousand). See footnote 9. For 1919, except for number of establishments, excludes data for one limestone and sulfur establishment in Louisiana.

⁷Includes data for lime plants producing lime valued at \$165 thousand and for 2 cement plants. Excludes data for sand and gravel and clay mining operations.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹Excludes data for common clay and shale operations. In 1939, there were 57 such mines with products valued at \$448 thousand.

¹⁰Except for number of establishments, includes data for 28 nonproducing operations in the Oil and Gas Extraction Industries in Oklahoma. See also footnote 6.

¹¹Except for number of establishments, includes data for 11 nonproducing operations in the Oil and Gas Extraction Industries in Oklahoma; and excludes data for one limestone and sulfur establishment in Louisiana. See also footnote 6.

¹²Except for number of establishments, includes data for 3 establishments in the Oil and Gas Extraction Industries in Louisiana and Oklahoma. See also footnote 7.

¹³For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas liquids plants.

¹⁴Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas. See also footnote 2.

¹⁵For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work (and in 1954, for dimension stone operations in manufactures, the cost of minerals received for preparation) is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁶Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁷Represents the cost of gas purchased as a material and for resale.

¹⁸Excludes purchased electric energy. For "All operations in 1939, the quantity of purchased electric energy amounted to only 0.4 percent of the total kwh. equivalent of energy used and for "Excluding oil and gas extraction industries" in 1929, to 1.4 percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 12 319 | 1 764 | 197 761 | 1 277 114 | 137 215 | 290 426 | 774 117 |
| | MINERAL INDUSTRIES | 12 127 | 1 745 | 196 365 | 1 271 111 | 135 900 | 287 706 | 768 333 |
| | INCLUDED IN MANUFACTURES | 192 | 19 | 1 396 | 16 003 | 1 315 | 2 720 | 5 784 |
| 10 | METAL MINING | 56 | 11 | 1 233 | 29 703 | 970 | 2 777 | 2 468 |
| 1011 | IRON ORES | 5 | 3 | 328 | 1 464 | 280 | 413 | 1 184 |
| 1051 | BAUXITE | 8 | 4 | 489 | 3 151 | 368 | 671 | 2 101 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | 47 | 8 | 596 | (²) | 539 | (²) | (²) |
| 1211 | BITUMINOUS COAL | 43 | 8 | 453 | 2 430 | 421 | 773 | 2 215 |
| 13 | OIL AND GAS EXTRACTION | 11 360 | 1 566 | 181 754 | 1 195 971 | 124 251 | 262 372 | 712 967 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 7 499 | 525 | 91 004 | 664 351 | 47 283 | 95 115 | 286 077 |
| | CRUDE PETROLEUM | 6 533 | 436 | 80 664 | 591 040 | 41 754 | 83 674 | 250 717 |
| | NATURAL GAS | 966 | 89 | 10 340 | 73 311 | 5 529 | 11 441 | 35 360 |
| 1321 | NATURAL GAS LIQUIDS | 458 | 183 | 10 213 | 70 515 | 8 679 | 17 815 | 57 841 |
| 138 | OIL AND GAS FIELD SERVICES | 3 403 | 858 | 80 537 | 461 105 | 68 289 | 149 442 | 369 049 |
| 1381 | DRILLING OIL AND GAS WELLS | 1 450 | 503 | 36 947 | 212 790 | 33 471 | 71 714 | 186 697 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 212 | 47 | 6 369 | 35 731 | 5 261 | 12 468 | 27 221 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 1 741 | 308 | 37 221 | 212 584 | 29 557 | 65 260 | 155 131 |
| | NONMETALLIC MINERALS MINING | 856 | 179 | 14 178 | 71 439 | 11 455 | 25 277 | 53 681 |
| 14 | MINERAL INDUSTRIES | 664 | 160 | 12 782 | 65 436 | 10 140 | 22 557 | 47 897 |
| | INCLUDED IN MANUFACTURES | 192 | 19 | 1 396 | 16 003 | 1 315 | 2 720 | 5 784 |
| 141 | DIMENSION STONE | 42 | 8 | 498 | 1 876 | 405 | 866 | 1 625 |
| | MINERALS INDUSTRY | 29 | 4 | 210 | 717 | 198 | 435 | 685 |
| | INCLUDED IN MANUFACTURES | 13 | 4 | 288 | 1 159 | 207 | 431 | 940 |
| | DIMENSION LIMESTONE SUBINDUSTRY | 14 | 1 | 136 | 378 | 78 | 143 | 359 |
| | DIMENSION GRANITE SUBINDUSTRY | 10 | 4 | 248 | 1 226 | 222 | 544 | 1 009 |
| | MINERAL SUBINDUSTRY | 5 | 2 | 104 | 476 | 102 | 281 | 459 |
| | INCLUDED IN MANUFACTURES | 5 | 2 | 144 | 750 | 120 | 263 | 550 |
| | DIMENSION STONE, N.E.C. SUBINDUSTRY | 18 | 3 | 114 | 272 | 105 | 178 | 257 |
| | CRUSHED AND BROKEN STONE | 129 | 55 | 3 375 | 16 378 | 2 962 | 6 779 | 13 726 |
| 142 | MINERAL INDUSTRY | 100 | 49 | 3 018 | 14 721 | 2 605 | 6 065 | 12 069 |
| | INCLUDED IN MANUFACTURES | 29 | 6 | 1 357 | 1 657 | 1 357 | 714 | 1 657 |
| | CRUSHED AND BROKEN LIMESTONE | 102 | 44 | 2 425 | 11 669 | 2 136 | 4 802 | 9 668 |
| | MINERAL SUBINDUSTRY | 73 | 38 | 2 068 | 10 012 | 1 779 | 4 088 | 8 011 |
| | INCLUDED IN MANUFACTURES | 29 | 6 | 1 357 | 1 657 | 1 357 | 714 | 1 657 |
| 144 | SAND AND GRAVEL | 475 | 74 | 4 664 | 19 376 | 3 952 | 8 927 | 16 241 |
| | MINERAL INDUSTRY | 423 | 71 | 4 494 | 18 749 | 3 782 | 8 587 | 15 614 |
| | INCLUDED IN MANUFACTURES | 52 | 3 | 170 | 627 | 170 | 340 | 627 |
| | CONSTRUCTION SAND AND GRAVEL SUB-INDUSTRY | 406 | 65 | 4 183 | 17 321 | 3 505 | 7 898 | 14 410 |
| | GLASS SAND SUBINDUSTRY | 3 | 2 | 53 | 280 | 45 | 108 | 212 |
| | MOLDING SAND SUBINDUSTRY | 5 | 1 | 69 | 287 | 63 | 134 | 253 |
| | INDUSTRIAL SAND, N.E.C. SUBINDUSTRY | 9 | 3 | 189 | 861 | 169 | 447 | 739 |
| | CLAY AND RELATED MINERALS: | | | | | | | |
| | FIRE CLAY | 22 | 4 | 1 240 | 1 999 | 1 240 | 492 | 999 |
| | CLAY AND RELATED MINERALS | 99 | 4 | 486 | 2 430 | 454 | 1 024 | 2 140 |
| | MINERAL INDUSTRY | 23 | 4 | 248 | 1 351 | 216 | 495 | 1 061 |
| | INCLUDED IN MANUFACTURES | 76 | - | 238 | 1 079 | 238 | 529 | 1 079 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 29 | 23 | 4 158 | 27 261 | 2 806 | 5 894 | 16 474 |
| | MISCELLANEOUS MINERALS, N.E.C.: | | | | | | | |
| 1496 | TALC, SOAPSTONE, AND PYROPHYLLITE | 6 | - | 46 | 239 | 33 | 66 | 160 |
| 1499 | NONMETALLIC MINERALS, N.E.C. | 8 | 2 | 115 | 502 | 98 | 192 | 336 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|------------------------------------|--|--|-----------------------------------|---------------------------|------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 7 829 548 | ³ 4 208 669 | ¹ 0 231 693 | ⁴ 1 806 524 | 227 204 | 6 183 853 |
| | MINERAL INDUSTRIES | 7 801 797 | 4 202 018 | 10 197 344 | 1 806 471 | 225 747 | 6 156 371 |
| | INCLUDED IN MANUFACTURES | 27 751 | ³ 6 651 | ¹ 34 349 | ⁴ 53 | ¹ 1 457 | 27 482 |
| 10 | METAL MINING | ² 36 201 | ² 15 219 | ² 49 841 | ² 1 579 | 1 501 | ² 39 458 |
| 1011 | IRON ORES | 4 375 | 1 947 | 6 155 | 167 | (NA) | (NA) |
| 1051 | BAUXITE | 16 725 | 3 615 | 20 147 | 193 | 632 | 15 023 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | (²) | (²) | (²) | (²) | 1 241 | (D) |
| 1211 | BITUMINOUS COAL | 5 513 | 2 688 | 7 381 | 820 | 1 059 | 10 618 |
| 13 | OIL AND GAS EXTRACTION | 7 543 895 | 4 099 196 | 9 859 132 | 1 783 959 | 209 976 | 5 931 822 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 6 060 004 | 2 051 519 | 6 585 864 | 1 525 659 | 112 039 | 4 654 605 |
| | CRUDE PETROLEUM | 5 150 812 | 1 779 824 | 5 611 558 | 1 319 078 | 105 332 | 4 344 305 |
| | NATURAL GAS | 909 192 | 271 695 | 974 306 | 206 581 | 6 707 | 310 300 |
| 1321 | NATURAL GAS LIQUIDS | 587 915 | 1 436 416 | 1 943 936 | 80 395 | 12 275 | 440 047 |
| 138 | OIL AND GAS FIELD SERVICES | 895 976 | 611 261 | 1 329 332 | 177 905 | 85 662 | 837 170 |
| 1381 | DRILLING OIL AND GAS WELLS | 438 916 | 335 380 | 660 279 | 114 017 | 39 438 | 401 270 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 60 606 | 27 270 | 79 728 | 8 148 | 7 364 | 48 044 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 396 454 | 248 611 | 589 325 | 55 740 | 38 860 | 387 856 |
| | NONMETALLIC MINERALS MINING | 249 452 | ³ 94 254 | ¹ 322 720 | ⁴ 20 986 | 14 486 | 212 573 |
| 14 | MINERAL INDUSTRIES | 221 701 | 87 603 | 288 371 | 20 933 | 13 029 | 185 091 |
| | INCLUDED IN MANUFACTURES | 27 751 | ³ 6 651 | ¹ 34 349 | ⁴ 53 | ¹ 1 457 | 27 482 |
| 141 | DIMENSION STONE | 3 279 | 2 549 | 5 627 | 201 | 518 | 2 678 |
| | MINERALS INDUSTRY | 1 317 | 868 | 2 037 | 148 | 188 | 963 |
| | INCLUDED IN MANUFACTURES | 1 962 | 1 681 | 3 590 | 53 | 330 | 1 715 |
| | DIMENSION LIMESTONE SUBINDUSTRY | 850 | 410 | 1 202 | 58 | 111 | 744 |
| | DIMENSION GRANITE SUBINDUSTRY | 1 963 | 1 891 | 3 755 | 99 | 288 | 1 717 |
| | MINERAL SUBINDUSTRY | 897 | 683 | 1 501 | 79 | 51 | 280 |
| | INCLUDED IN MANUFACTURES | 1 066 | 1 208 | 2 254 | 20 | 237 | 1 437 |
| | DIMENSION STONE, N.E.C. SUBINDUSTRY | 466 | ³ 248 | 670 | 44 | 119 | 417 |
| | CRUSHED AND BROKEN STONE | 49 372 | ³ 25 441 | ¹ 68 397 | (NA) | ¹ 2 762 | 29 529 |
| 142 | MINERAL INDUSTRY | 37 442 | 23 838 | 54 864 | 6 416 | 2 372 | 19 750 |
| | INCLUDED IN MANUFACTURES | 11 930 | ³ 1 603 | ¹ 13 533 | (NA) | ¹ 390 | 9 779 |
| | CRUSHED AND BROKEN LIMESTONE MINERAL SUBINDUSTRY | 34 466 | ³ 14 343 | ¹ 43 857 | (NA) | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 22 536 | 12 740 | 30 324 | 4 952 | 1 901 | 15 695 |
| | INCLUDED IN MANUFACTURES | 11 930 | ³ 1 603 | ¹ 13 533 | (NA) | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 51 545 | ³ 27 591 | ¹ 71 405 | (NA) | ¹ 4 782 | 48 866 |
| | MINERAL INDUSTRY | 47 677 | 26 924 | 66 870 | 7 731 | 4 414 | 43 376 |
| | INCLUDED IN MANUFACTURES | 3 868 | ³ 667 | ¹ 4 535 | (NA) | ¹ 368 | 5 490 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 43 658 | 24 050 | 60 681 | 7 027 | ⁵ 4 274 | ⁵ 41 703 |
| | GLASS SAND SUBINDUSTRY | 661 | 667 | 1 009 | 219 | 140 | 1 673 |
| | MOLDING SAND SUBINDUSTRY | 429 | 658 | 990 | 97 | | |
| | INDUSTRIAL SAND, N.E.C. SUBINDUSTRY | 2 929 | 1 549 | 4 190 | 388 | (⁵) | (⁵) |
| | CLAY AND RELATED MINERALS ¹ | | | | | | |
| | FIRE CLAY | 2 196 | ³ 1 094 | ¹ 3 280 | (NA) | 166 | 1 720 |
| | CLAY AND RELATED MINERALS | 5 830 | 3 310 | 8 824 | (NA) | 582 | 3 703 |
| | MINERAL INDUSTRY | 3 081 | 2 030 | 4 795 | 316 | 341 | 2 198 |
| | INCLUDED IN MANUFACTURES | 2 749 | ³ 1 280 | ¹ 4 029 | (NA) | ¹ 241 | 1 505 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 126 382 | 29 321 | 150 706 | 4 997 | 4 747 | 111 984 |
| | MISCELLANEOUS MINERALS, N.E.C. ² | | | | | | |
| 1496 | TALC, SOAPSTONE, AND PYROPHYLLITE | 588 | 188 | 722 | 54 | (NA) | (NA) |
| 1499 | NONMETALLIC MINERALS, N.E.C. | 671 | 1 124 | 1 624 | 171 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Figures for bituminous coal and lignite mining are included with those for metal mining.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁵Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ³ of primary products by establishment classified in-- | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 4 202 018 | 1342 828 | 1 296 367 | 1 088 397 | 474 426 | 1 806 471 | 901 365 | 905 106 | (x) | (x) | (x) | (x) |
| | METAL MINING: | | | | | | | | | | | | |
| 1011 | IRON ORES | 1 947 | 1 101 | - | 677 | 169 | 167 | - | 167 | 3905 | 6 155 | - | - |
| 1051 | BAUXITE | 3 615 | 899 | 1 158 | 1 162 | 396 | 193 | 28 | 165 | (D) | (D) | - | - |
| | BITUMINOUS COAL AND LIGNITE MINING: | | | | | | | | | | | | |
| 1211 | BITUMINOUS COAL | 2 688 | 1 663 | - | 291 | 734 | 820 | 45 | 775 | 1 242 | 7 306 | - | - |
| 13 | OIL AND GAS EXTRACTION. | 4 099 196 | 1 271 785 | 1 287 887 | 1 080 369 | 459 155 | 1 783 959 | 900 196 | 883 763 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 2 051 519 | 796 035 | - | 979 914 | 275 570 | 1 525 659 | 892 588 | 633 071 | (x) | 6 551 045 | (x) | 30 765 |
| | CRUDE PETROLEUM | 1 779 824 | 689 904 | - | 846 922 | 242 998 | 1 319 078 | 765 705 | 553 373 | 41 588 978 | 4 702 886 | 493 888 | 276 961 |
| | NATURAL GAS | 271 695 | 106 131 | - | 132 992 | 32 572 | 206 581 | 126 883 | 79 698 | 40 697 613 | 716 131 | 56 074 042 | 885 832 |
| 1321 | NATURAL GAS LIQUIDS | 1 436 416 | 83 046 | 1 287 887 | 31 298 | 34 185 | 80 395 | - | 80 395 | 6294 603 | 6585 018 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 611 261 | 392 704 | - | 69 157 | 149 400 | 177 905 | 7 608 | 170 297 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 335 380 | 186 860 | - | 56 556 | 91 964 | 114 017 | 7 547 | 106 470 | (x) | 7645 895 | (x) | (7) |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 27 270 | 17 479 | - | 2 960 | 6 831 | 8 148 | - | 8 148 | (x) | 772 701 | (x) | (7) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 248 611 | 188 365 | - | 9 641 | 50 605 | 55 740 | 61 | 55 679 | (x) | 7528 803 | (x) | (7) |
| 14 | NONMETALLIC MINERALS MINING | 87 603 | 868 518 | (8) | 5 340 | 13 745 | 20 933 | 924 | 20 009 | (x) | (x) | (x) | (x) |
| 142 | CRUSHED AND BROKEN STONE. | 23 838 | 18 221 | 14 | 1 913 | 3 690 | 6 416 | 43 | 6 373 | 34 562 | 49 063 | 912 107 | 913 748 |
| | CRUSHED AND BROKEN LIMESTONE. | 12 740 | 9 395 | 14 | 821 | 2 510 | 4 952 | 27 | 4 925 | 25 914 | 28 093 | 102 018 | 102 967 |
| 144 | SAND AND GRAVEL | 26 924 | 819 220 | (8) | 2 107 | 5 597 | 7 731 | 112 | 7 619 | 52 581 | 1469 931 | 93 647 | (11) |
| | CONSTRUCTION SAND AND GRAVEL | 24 050 | 817 263 | (8) | 1 959 | 4 828 | 7 027 | 111 | 6 916 | 50 587 | 1264 445 | (D) | (12) |
| 145 | CLAY AND RELATED MINERALS | 3 137 | 82 534 | (8) | 487 | 116 | 492 | 77 | 415 | (x) | (x) | (x) | (x) |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 29 321 | 825 287 | (8) | 521 | 3 513 | 4 997 | 563 | 4 434 | (x) | (x) | (x) | (x) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 3 464 | 82 395 | (8) | 288 | 781 | 1 139 | 124 | 1 015 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Quantity represents thousands of long tons.⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁵Represents millions of cubic feet of natural gas shipped.⁶Represents net shipments of natural gas liquids only. The quantity is in thousands of barrels.⁷Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁸Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.¹⁰Excludes figures for minerals produced and used in the same establishment, except that used in making lime, for which the value was estimated.¹¹Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 9.¹²Represents value of gross shipments. Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | 8 707 | 8 209 | 7 240 | 26 | 172 | 7 042 | 487 | 19 | 425 | 43 | 482 | 498 |
| | NUMBER OF ESTABLISHMENTS..... | 91 166 | 90 283 | 69 403 | 124 | 818 | 68 461 | 10 344 | 901 | 7 509 | 1 934 | 10 536 | 883 |
| | NUMBER OF EMPLOYEES..... | 6 908 754 | 6 913 655 | 6 159 361 | 1 095 | 13 217 | 6 145 049 | 159 609 | 15 146 | 98 719 | 45 744 | 159 685 | (²) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 52 | 42 | 22 | 14 | 7 | 1 | 11 | 7 | 4 | - | 9 | 10 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - | 196 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - | 2 119 | (D) |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 5 | 5 | 1 | - | 1 | - | 4 | - | 4 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 328 | 328 | (D) | - | (D) | - | (D) | - | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 375 | 4 375 | (D) | - | (D) | - | (D) | - | (D) | - | - | - |
| 105 | BAUXITE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 8 | 8 | 4 | 1 | 2 | 1 | - | - | - | - | 4 | - |
| | NUMBER OF EMPLOYEES..... | 473 | 473 | (D) | (D) | (D) | (D) | - | - | - | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 725 | 16 725 | (D) | (D) | (D) | (D) | - | - | - | - | (D) | - |
| 12 | BITUMINOUS COAL & LIGNITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 43 | 42 | 27 | 12 | 15 | - | 15 | 4 | 11 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | 50 | - | (D) | 127 | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | 682 | - | (D) | 689 | (D) | - | - | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 7 957 | 7 483 | 7 029 | - | - | 7 029 | - | - | - | - | 454 | 474 |
| | NUMBER OF EMPLOYEES..... | 77 683 | 76 957 | 66 915 | - | - | 66 915 | - | - | - | - | 10 042 | 726 |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 647 919 | 6 652 240 | 6 064 325 | - | - | 6 064 325 | - | - | - | - | 587 915 | (²) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 7 499 | 7 029 | 7 029 | - | - | 7 029 | - | - | - | - | - | 470 |
| | NUMBER OF EMPLOYEES..... | 67 640 | 66 915 | 66 915 | - | - | 66 915 | - | - | - | - | - | 725 |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 060 004 | 6 064 325 | 6 064 325 | - | - | 6 064 325 | - | - | - | - | - | (²) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 458 | 454 | - | - | - | - | - | - | - | - | 454 | 4 |
| | NUMBER OF EMPLOYEES..... | 10 043 | 10 042 | - | - | - | - | - | - | - | - | 10 042 | 1 |
| | VALUE ADDED IN MINING.....\$1,000.. | 587 915 | 537 915 | - | - | - | - | - | - | - | - | 587 915 | (²) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 655 | 642 | 162 | - | 150 | 12 | 461 | 8 | 410 | 43 | 19 | 13 |
| | NUMBER OF EMPLOYEES..... | 11 792 | 11 666 | 1 886 | - | (D) | (D) | 9 482 | (D) | (D) | 1 934 | 298 | 126 |
| | VALUE ADDED IN MINING.....\$1,000.. | 222 168 | 222 139 | 77 176 | - | (D) | (D) | 140 854 | (D) | (D) | 45 744 | 4 109 | 29 |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 100 | 95 | 8 | - | 8 | - | 85 | 2 | 83 | - | 2 | 5 |
| | NUMBER OF EMPLOYEES..... | 2 959 | (D) | (D) | - | (D) | - | 2 763 | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 37 442 | (D) | (D) | - | (D) | - | 35 949 | (D) | (D) | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 423 | 416 | 81 | - | 77 | 4 | 322 | - | 286 | 36 | 13 | 7 |
| | NUMBER OF EMPLOYEES..... | 4 450 | 4 389 | 267 | - | (D) | (D) | 3 956 | - | (D) | (D) | 166 | 61 |
| | VALUE ADDED IN MINING.....\$1,000.. | 47 677 | 47 720 | 2 484 | - | (D) | (D) | 42 663 | - | (D) | (D) | 2 573 | (²) |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 40 | 40 | 25 | - | 25 | - | 15 | - | 15 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 368 | 368 | 37 | - | 37 | - | 331 | - | 331 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 031 | 4 031 | 405 | - | 405 | - | 3 626 | - | 3 626 | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 29 | 29 | 11 | - | 3 | 8 | 15 | 5 | 3 | 7 | 3 | - |
| | NUMBER OF EMPLOYEES..... | 3 350 | 3 350 | 1 278 | - | (D) | (D) | 2 009 | (D) | (D) | (D) | 63 | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 126 302 | 126 382 | 71 922 | - | (D) | (D) | 53 752 | (D) | (D) | (D) | 708 | - |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 34 | 33 | 11 | - | 11 | - | 21 | 1 | 20 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 455 | (D) | (D) | - | (D) | - | (D) | (D) | 421 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 661 | (D) | (D) | - | (D) | - | (D) | (D) | 4 292 | - | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

(For county statistics, see table 3 of the individual State reports)

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|---|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 121 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c., in manufactures |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| WEST SOUTH CENTRAL DIVISION-TOTAL | 12 319 | 12 127 | 192 | 5 | - | 25 | 1 | 8 | 6 | 4 | 7 | - | - | 43 | 4 | 7 499 | 458 | 3 403 | 29 | 13 | 100 | 29 | 423 | 52 | 40 | 91 | 29 | 9 | 34 | 7 |
| NO EMPLOYEES | 2 496 | 2 489 | 7 | - | - | 1 | - | - | 2 | - | - | - | - | 11 | - | 2 117 | 9 | 275 | 6 | - | 2 | 2 | 53 | 3 | 6 | 2 | 2 | - | 5 | - |
| 1-4 EMPLOYEES | 5 121 | 5 007 | 114 | - | - | 9 | 1 | 3 | 2 | 1 | 5 | - | - | 13 | 4 | 5 517 | 69 | 1 173 | 13 | 6 | 19 | 4 | 141 | 40 | 18 | 63 | - | 6 | 13 | 1 |
| 5-9 EMPLOYEES | 1 627 | 1 594 | 33 | - | - | 7 | - | - | 1 | 1 | 1 | - | - | 3 | - | 852 | 82 | 541 | 2 | 3 | 10 | 8 | 81 | 5 | 2 | 16 | 3 | 2 | 6 | 1 |
| 10-19 EMPLOYEES | 1 311 | 1 292 | 19 | 2 | - | 6 | - | 1 | 1 | 1 | - | - | - | 8 | - | 488 | 115 | 556 | 4 | - | 20 | 9 | 77 | 1 | 7 | 6 | 1 | 1 | 4 | 3 |
| 20-49 EMPLOYEES | 1 150 | 1 135 | 19 | 2 | - | 1 | - | 2 | - | 1 | 1 | - | - | 4 | - | 296 | 143 | 567 | 4 | 2 | 36 | 6 | 63 | 2 | 7 | 3 | 5 | - | 3 | 2 |
| 50-99 EMPLOYEES | 366 | 363 | 3 | - | - | 1 | - | - | - | - | - | - | - | 3 | - | 121 | 33 | 184 | - | 1 | 8 | - | 6 | 1 | - | 1 | 4 | - | 3 | - |
| 100-249 EMPLOYEES | 178 | 177 | 1 | - | - | - | - | 1 | - | - | - | - | - | 1 | - | 73 | 7 | 78 | - | 1 | 4 | - | 2 | - | - | - | 11 | - | - | - |
| 250-499 EMPLOYEES | 45 | 45 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | 24 | - | 16 | - | - | 1 | - | - | - | - | - | 2 | - | - | - |
| 500-999 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 8 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 1000-2499 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2500 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

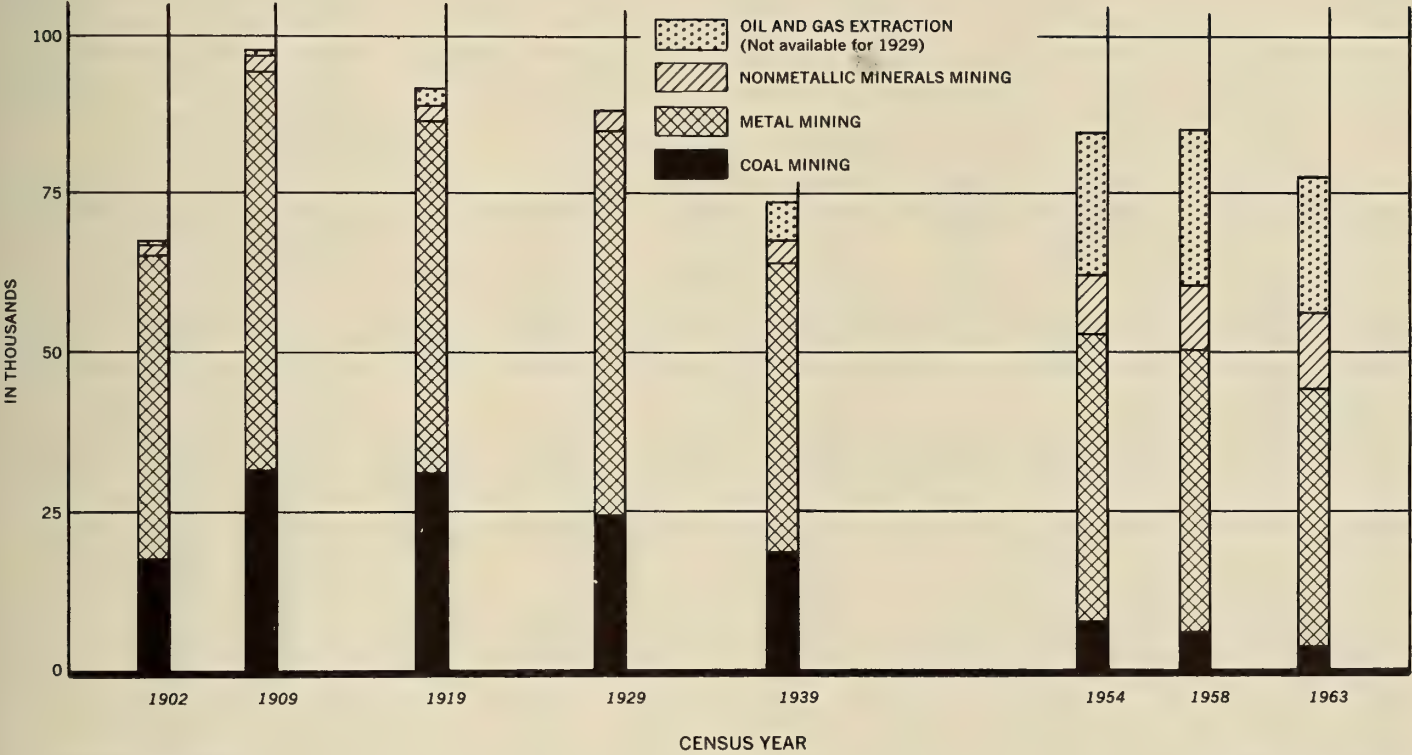
(X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MOUNTAIN



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|---|---|-------------------------|---|--|-----------------------|-------------------------------|-------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 3 664 | 515 | 77 003 | 507 811 | 61 916 | 127 380 | 387 078 | 2 101 849 | |
| 1958 | 3 800 | 565 | 84 891 | 463 056 | 64 682 | 128 705 | 329 590 | 1 744 065 | |
| 1954 | 4 551 | 556 | 84 662 | 393 746 | 68 713 | 140 458 | 301 851 | ¹ 1 305 463 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 3 812 | 522 | 78 098 | 513 397 | 62 992 | 129 532 | 392 581 | 2 129 755 | |
| 1958 | 3 913 | 573 | 85 739 | 466 922 | 65 525 | 130 364 | 333 441 | 1 768 609 | |
| 1954 | 4 612 | 561 | 85 066 | 395 178 | 69 114 | 141 253 | 303 275 | ¹ 1 313 850 | |
| 1939 ³ | ⁴ 2 351 | (NA) | 74 096 | 111 751 | 66 711 | 129 846 | 93 717 | 283 834 | |
| 1919 ⁵ | 1 948 | (NA) | 91 738 | 151 338 | 84 708 | (NA) | 136 053 | 231 748 | |
| 1909 ⁵ | 4 378 | (NA) | 97 694 | 100 088 | 91 775 | (NA) | 90 578 | 126 770 | |
| 1902 ⁶ | ⁴ 6 636 | (NA) | 67 507 | 67 087 | ⁷ 61 711 | (NA) | 59 350 | 86 118 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 1 985 | 267 | 56 503 | 369 517 | 47 315 | 96 847 | 296 197 | 1 013 334 | |
| 1958 | 2 313 | 298 | 61 103 | 323 411 | 49 498 | 96 485 | 250 453 | ¹ 794 647 | |
| 1954 | 3 194 | 295 | 62 549 | 287 666 | 52 557 | 107 158 | 230 646 | ¹ 667 368 | |
| 1939 ³ | ⁴ 1 861 | (NA) | 68 044 | 101 286 | 61 756 | 122 828 | 85 753 | 226 574 | |
| 1919 ⁸ | 1 551 | (NA) | 88 572 | 154 720 | 82 517 | (NA) | 137 695 | 311 733 | |
| 1919 ⁵ | 1 882 | (NA) | 89 272 | 147 013 | 82 356 | (NA) | 132 251 | 214 940 | |
| 1909 ⁹ | 4 333 | (NA) | 97 534 | 99 925 | 91 632 | (NA) | 90 432 | 126 751 | |
| 1902 ¹⁰ | ⁴ 6 619 | (NA) | 67 337 | 66 934 | ⁷ 61 564 | (NA) | 59 240 | 85 712 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ¹¹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | ¹² 444 505 | ¹² 379 982 | 246 092 | 158 552 | 2 895 285 | 435 695 | 50 151 | 810 | 6 199 |
| 1958 | ¹² 436 054 | ¹² 288 382 | 314 987 | 142 611 | 2 445 608 | 480 491 | 46 435 | 718 | 4 710 |
| 1954 | 312 916 | ¹³ 140 363 | 256 342 | 128 584 | ¹¹ 1 768 451 | 364 677 | 38 360 | 558 | (NA) |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | ¹⁴ 449 247 | 379 990 | ¹⁴ 246 100 | ¹⁵ 158 599 | 2 927 947 | ¹⁵ 435 744 | ¹⁵ 50 151 | 810 | ¹⁶ 6 199 |
| 1958 | ¹⁴ 439 499 | ¹² 288 382 | ¹⁴ 314 993 | ¹⁵ 142 656 | 2 473 597 | ¹⁵ 480 542 | ¹⁵ 46 437 | 709 | (NA) |
| 1954 | ¹⁴ 314 283 | ¹³ 140 363 | ¹⁴ 256 353 | ¹⁵ 128 606 | ¹¹ 1 778 236 | ¹⁵ 364 679 | ¹⁵ 38 361 | 555 | ¹⁵ 4 711 |
| 1939 ³ | 64 167 | (NA) | 13 242 | (NA) | 361 243 | (NA) | 18 846 | 282 | 1 472 |
| 1919 ⁵ | 80 157 | 6 254 | 3 667 | (NA) | 321 826 | (NA) | ¹⁶ 16 318 | 193 | 752 |
| 1909 ⁵ | 57 358 | 15 606 | 5 320 | (NA) | 205 054 | (NA) | (NA) | (NA) | 507 |
| 1902 ⁶ | 24 304 | (NA) | 2 124 | (NA) | 112 546 | (NA) | (NA) | (NA) | 237 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | ¹⁴ 286 870 | 229 976 | ¹⁴ 167 994 | ¹⁵ 83 824 | 1 520 610 | ¹⁵ 161 388 | ¹⁵ 17 559 | 380 | ¹⁵ 3 788 |
| 1958 | ¹² 263 527 | ¹² 215 067 | ¹⁴ 109 366 | ¹⁵ 61 716 | 1 265 234 | ¹⁵ 179 089 | ¹⁵ 19 463 | 393 | (NA) |
| 1954 | ¹⁴ 187 503 | ¹³ 134 981 | ¹⁴ 74 211 | ¹⁵ 4 671 | ¹¹ 997 903 | ¹⁵ 110 336 | ¹⁵ 16 716 | 318 | ¹⁵ 3 215 |
| 1939 ⁹ | 60 528 | (NA) | 1 906 | (NA) | 289 008 | (NA) | 15 810 | 256 | 1 356 |
| 1919 ⁸ | 82 784 | (NA) | 5 136 | 19 711 | 399 653 | (NA) | 13 405 | 162 | 1 029 |
| 1919 ⁵ | 75 440 | 6 180 | 2 894 | (NA) | 299 454 | (NA) | ¹⁶ 15 278 | 186 | 737 |
| 1909 ⁹ | 57 080 | 15 606 | 5 280 | (NA) | 204 717 | (NA) | (NA) | (NA) | 504 |
| 1902 ¹⁰ | 24 235 | (NA) | 2 114 | (NA) | 112 061 | (NA) | (NA) | (NA) | 236 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments and, except for number of establishments, excludes data for one dimension sandstone quarry and dressing plant and for one common clay pit in New Mexico.

³Excludes, in part, data for dimension stone dressing plants operated in conjunction with quarries.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime plants. For 1929, there were 18 such sand and gravel establishments, with products valued at \$1,596 thousand and 13 such stone operations. See also footnote 8.

⁶Includes data for lime plants and for 2 cement plants; the value of lime produced in 5 of the Mountain States was \$229 thousand. Excludes data for sand and gravel and clay mining operations and for stone quarries at other cement plants.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Excludes data for common clay and shale operations. In 1939, there were 27 such mining operations with products valued at about \$190 thousand.

⁹Except for number of establishments, includes data for 11 nonproducing oil and gas extraction establishments in Montana, Wyoming, Colorado, and Arizona. See also footnote 5.

¹⁰Except for number of establishments, includes data for 2 companies in Wyoming primarily engaged in producing crude petroleum, and for 3 companies in Colorado primarily engaged in producing natural gas. See also footnote 6.

¹¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹²Figures for minerals received for preparation in Nevada are included with those for supplies, purchases for resale, and purchased fuels and electric energy. For "Including operations in manufactures," see also footnote 14.

¹³Excludes the cost of natural gas processed at natural gas liquid plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas. See also footnote 1.

¹⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁵Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁶Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to 7 percent of the total kwh. equivalent of energy used; and for "Excluding oil and gas extraction industries" in 1929, to 9 percent.

¹⁷Includes data for 7 establishments primarily engaged in building, repairing, or dismantling rigs and derricks. See also footnote 15.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|---------------------------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 3 812 | 522 | 78 098 | 513 397 | 62 992 | 129 532 | 392 581 |
| | MINERAL INDUSTRIES | 3 664 | 515 | 77 003 | 507 811 | 61 916 | 127 380 | 387 078 |
| | INCLUDED IN MANUFACTURES | 148 | 7 | 1 095 | 15 586 | 1 076 | 2 152 | 5 503 |
| 10 | METAL MINING | 919 | 135 | 40 864 | 276 998 | 33 885 | 71 074 | 219 756 |
| 1011 | IRON ORES. | 30 | 8 | 1 085 | 7 459 | 865 | 1 651 | 5 565 |
| 102 103 104 1044 | COPPER ORES, LEAD, ZINC, GOLD, AND SILVER ORES | 488 | 63 | 29 265 | 198 590 | 24 593 | 51 687 | 159 946 |
| | SILVER ORES. | 94 | 8 | 1 406 | 8 519 | 1 150 | 2 307 | 6 783 |
| 106 1081 | FERROALLOY ORES. | 33 | 4 | 4 009 | 15 549 | 1 928 | 3 476 | 11 147 |
| | METAL MINING SERVICES. | 45 | 11 | | 11 238 | 1 482 | 3 224 | 9 456 |
| 109 1092 1094 | MISCELLANEOUS METAL ORES | 323 | 49 | 6 505 | 44 162 | 5 017 | 11 036 | 33 642 |
| | MERCURY ORES | 15 | 1 | 91 | 486 | 79 | 161 | 440 |
| | URANIUM-RADIUM-VANADIUM ORES . . . | 289 | 48 | 6 396 | 43 602 | 4 921 | 10 843 | 33 129 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING . . | 213 | 42 | 3 870 | 22 115 | 3 467 | 5 771 | 19 509 |
| 1211 | BITUMINOUS COAL. | 195 | 41 | 3 771 | 21 548 | 3 381 | 5 614 | 19 036 |
| 13 | OIL AND GAS EXTRACTION | 1 827 | 255 | 21 595 | 143 880 | 15 677 | 32 685 | 96 384 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 1 109 | 114 | 11 496 | 85 966 | 6 610 | 13 194 | 44 706 |
| | CRUDE PETROLEUM. | 944 | 90 | 9 399 | 73 077 | 5 214 | 10 471 | 36 507 |
| | NATURAL GAS. | 165 | 24 | 2 097 | 12 889 | 1 396 | 2 723 | 8 199 |
| 1321 | NATURAL GAS LIQUIDS. | 60 | 23 | 1 179 | 8 095 | 1 062 | 2 179 | 7 295 |
| 138 1381 1382 | OIL AND GAS FIELD SERVICES | 658 | 118 | 8 920 | 49 819 | 8 005 | 17 312 | 44 383 |
| | DRILLING OIL AND GAS WELLS | 252 | 70 | 5 183 | 32 480 | 4 766 | 10 486 | 29 186 |
| | OIL AND GAS FIELD EXPLORATION SERVICES. | 81 | 8 | 614 | 2 819 | 506 | 1 119 | 2 466 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . | 325 | 40 | 3 123 | 14 520 | 2 733 | 5 707 | 12 731 |
| 14 | NONMETALLIC MINERALS MINING. | 853 | 90 | 11 769 | 70 404 | 9 963 | 20 002 | 56 932 |
| | MINERAL INDUSTRIES | 705 | 83 | 10 674 | 64 818 | 8 887 | 17 850 | 51 429 |
| | INCLUDED IN MANUFACTURES | 148 | 7 | 1 095 | 15 586 | 1 076 | 2 152 | 5 503 |
| 1411 | DIMENSION STONE. | 37 | 2 | 197 | 668 | 170 | 290 | 569 |
| | MINERAL INDUSTRY | 21 | 1 | 97 | 223 | 89 | 135 | 207 |
| | INCLUDED IN MANUFACTURES | 16 | 1 | 100 | 445 | 81 | 155 | 362 |
| | DIMENSION STONE, N.E.C. | 31 | 2 | 165 | 512 | 143 | 241 | 436 |
| 1421 | CRUSHED AND BROKEN STONE | 107 | 10 | 923 | 4 757 | 834 | 1 623 | 4 443 |
| | MINERAL INDUSTRY | 82 | 8 | 646 | 3 055 | 557 | 1 069 | 2 741 |
| | INCLUDED IN MANUFACTURES | 25 | 2 | 1 277 | 1 702 | 1 277 | 554 | 1 702 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: | | | | | | | |
| | MINERAL SUBINDUSTRY. | 33 | 4 | 327 | 1 519 | 268 | 545 | 1 360 |
| | CRUSHED AND BROKEN GRANITE SUBINDUSTRY | 5 | 2 | 80 | 417 | 77 | 155 | 394 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY: | | | | | | | |
| | MINERAL SUBINDUSTRY. | 44 | 2 | 239 | 1 119 | 212 | 369 | 987 |
| 1441 | SAND AND GRAVEL. | 412 | 27 | 2 998 | 14 735 | 2 737 | 5 391 | 13 219 |
| | MINERAL INDUSTRY | 342 | 24 | 2 428 | 12 007 | 2 167 | 4 240 | 10 491 |
| | INCLUDED IN MANUFACTURES | 70 | 3 | 570 | 2 728 | 570 | 1 151 | 2 728 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 332 | 24 | 2 368 | 11 652 | 2 114 | 4 118 | 10 181 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² . . | 10 | 1 | 60 | 355 | 53 | 122 | 310 |
| 145 | CLAY AND RELATED MINERALS: | | | | | | | |
| | MINERAL INDUSTRIES | 61 | 11 | 824 | 4 753 | 703 | 1 484 | 4 014 |
| | BENTONITE. | 17 | 7 | 293 | 1 580 | 241 | 587 | 1 290 |
| | FIRE CLAY. | 22 | - | 160 | 1 248 | 157 | 112 | 232 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. . . | 42 | 3 | 394 | 2 299 | 337 | 664 | 1 894 |
| | MINERAL INDUSTRY | 24 | 3 | 360 | 2 186 | 303 | 601 | 1 781 |
| | INCLUDED IN MANUFACTURES | 18 | - | 134 | 113 | 134 | 63 | 113 |
| 147 | CHEMICAL AND FERTILIZER MINERALS . . | 62 | 22 | 5 383 | 37 331 | 4 202 | 8 452 | 27 379 |
| 1472 1473 | BARITE | 17 | - | 47 | 248 | 39 | 86 | 211 |
| | FLUORSPAR. | 7 | - | 45 | 213 | 39 | 85 | 171 |
| 1481 | NONMETALLIC MINERAL SERVICES. . . . | 18 | 5 | 267 | 1 955 | 255 | 522 | 1 897 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES | 119 | 12 | 1 029 | 5 494 | 914 | 1 948 | 4 700 |
| | GYPNUM: | | | | | | | |
| | MINERAL INDUSTRY | 13 | 1 | 85 | 540 | 69 | 152 | 430 |
| 1492 | PUMICE AND PUMICITE. | 35 | - | 105 | 458 | 96 | 179 | 435 |
| 1496 | TALC, SOAPSTONE, AND PYROPHYLLITE. | 10 | - | 42 | 185 | 39 | 80 | 177 |
| 1499 | NONMETALLIC MINERALS, N.E.C. | 35 | 8 | 522 | 2 939 | 470 | 1 065 | 2 524 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 129 755 | ³ 1 233 936 | ¹² 927 947 | ⁴ 35 744 | 85 739 | 1 768 609 |
| | MINERAL INDUSTRIES | 2 101 849 | 1 229 131 | 2 895 285 | 435 695 | 84 891 | 1 744 065 |
| | INCLUDED IN MANUFACTURES | 27 906 | ³ 4 805 | ¹³ 2 662 | ⁴ 49 | ¹ 848 | 24 544 |
| 10 | METAL MINING | 748 358 | 540 171 | 1 170 768 | 117 761 | 44 680 | 570 738 |
| 1011 | IRON ORES. | 25 328 | 10 936 | 35 043 | 1 221 | 938 | 27 731 |
| 102 | COPPER ORES, LEAD, ZINC, GOLD AND | | | | | | |
| 103 | SILVER ORES | 464 019 | 358 725 | 728 551 | 94 193 | 30 597 | 304 824 |
| 104 | SILVER ORES. | 21 707 | 7 337 | 25 978 | 3 066 | (NA) | (NA) |
| 1044 | SILVER ORES. | | | | | (NA) | (NA) |
| 106 | FERROALLOY ORES. | | | | | (NA) | (NA) |
| 1081 | METAL MINING SERVICES. | 74 921 | 26 883 | 94 791 | 7 013 | 1 341 | 15 329 |
| 109 | MISCELLANEOUS METAL ORES | 184 090 | 143 627 | 312 383 | 15 334 | (NA) | (NA) |
| 1092 | MERCURY ORES | | 452 | 776 | 38 | (NA) | (NA) |
| 1094 | URANIUM-RADIUM-VANADIUM ORES | 183 514 | 143 177 | 311 458 | 15 233 | 7 609 | 167 557 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | 56 590 | 31 204 | 81 455 | 6 339 | 5 735 | 48 790 |
| 1211 | BITUMINOUS COAL. | 54 864 | 30 603 | 79 177 | 6 290 | 5 666 | 48 051 |
| 13 | OIL AND GAS EXTRACTION | 1 116 421 | 565 272 | 1 407 337 | 274 356 | 24 636 | 973 962 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 969 292 | 345 509 | 1 062 182 | 252 619 | 14 501 | 841 883 |
| | CRUDE PETROLEUM. | 886 701 | 300 381 | 973 566 | 213 516 | 12 718 | 788 708 |
| | NATURAL GAS. | 82 591 | 45 128 | 88 616 | 39 103 | 1 783 | 53 175 |
| 1321 | NATURAL GAS LIQUIDS. | 47 207 | 160 143 | 200 062 | 7 288 | 1 205 | 39 408 |
| 138 | OIL AND GAS FIELD SERVICES | 99 922 | 59 620 | 145 093 | 14 449 | 8 930 | 92 671 |
| 1381 | DRILLING OIL AND GAS WELLS | 64 631 | 44 330 | 99 070 | 9 891 | 5 946 | 65 355 |
| 1382 | OIL AND GAS FIELD EXPLORATION | | | | | | |
| | SERVICES. | 6 347 | 4 170 | 9 647 | 870 | 810 | 8 167 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 28 944 | 11 120 | 36 376 | 3 688 | 2 174 | 19 149 |
| | NONMETALLIC MINERALS MINING. | 208 386 | ³ 97 289 | ¹² 68 387 | ⁴ 37 288 | 10 688 | 175 119 |
| 14 | MINERAL INDUSTRIES | 180 480 | 92 484 | 235 725 | 37 239 | 9 840 | 150 575 |
| | INCLUDED IN MANUFACTURES | 27 906 | ³ 4 805 | ¹³ 2 662 | ⁴ 49 | ¹ 848 | 24 544 |
| | DIMENSION STONE. | 1 047 | 468 | 1 437 | 78 | 116 | 694 |
| 1411 | MINERAL INDUSTRY | 369 | 151 | 491 | 29 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 678 | 317 | 946 | 49 | (NA) | (NA) |
| | DIMENSION STONE, N.E.C. | 761 | 378 | 1 078 | 61 | 97 | 586 |
| | CRUSHED AND BROKEN STONE | 15 095 | ³ 5 164 | ¹⁹ 274 | (NA) | 1 062 | 17 318 |
| 1421 | MINERAL INDUSTRY | 7 841 | ³ 432 | 10 288 | 985 | 874 | 10 371 |
| | INCLUDED IN MANUFACTURES | 7 254 | ³ 1 732 | ¹⁸ 986 | (NA) | ¹ 188 | 5 947 |
| | CRUSHED AND BROKEN LIMESTONE | | | | | | |
| | SUBINDUSTRY: | | | | | | |
| | MINERAL SUBINDUSTRY. | 4 339 | 1 496 | 5 261 | 574 | 483 | 4 612 |
| | CRUSHED AND BROKEN GRANITE | | | | | | |
| | SUBINDUSTRY | 697 | 335 | 1 008 | 24 | 38 | 222 |
| | CRUSHED AND BROKEN STONE, N.E.C.: | | | | | | |
| | SUBINDUSTRY: | | | | | | |
| | MINERAL SUBINDUSTRY. | 2 805 | 1 601 | 4 019 | 387 | 353 | 5 537 |
| 1441 | SAND AND GRAVEL. | 43 370 | 16 305 | 55 418 | (NA) | 2 346 | 43 303 |
| | MINERAL INDUSTRY | 28 213 | 14 263 | 38 219 | 4 257 | 1 869 | 30 507 |
| | INCLUDED IN MANUFACTURES | 15 157 | 2 042 | 17 199 | (NA) | 477 | 12 796 |
| | CONSTRUCTION SAND AND GRAVEL | | | | | | |
| | SUBINDUSTRY. | 27 245 | 13 872 | 37 024 | 4 093 | ⁴ 1 813 | ⁴ 29 979 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | 968 | 391 | 1 195 | 164 | ⁵ 56 | ⁵ 28 |
| 145 | CLAY AND RELATED MINERALS: | | | | | | |
| | MINERAL INDUSTRIES | 11 970 | 8 041 | 19 307 | 704 | 670 | 12 863 |
| | BENTONITE. | 4 579 | 4 522 | 8 802 | 299 | (NA) | (NA) |
| | FIRE CLAY. | 696 | ³ 294 | ¹ 915 | (NA) | ¹ 53 | 778 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 6 265 | 3 195 | 9 168 | (NA) | 137 | 1 904 |
| | MINERAL INDUSTRY | 5 826 | 3 066 | 8 600 | 292 | ⁶ 98 | ⁶ 59 |
| | INCLUDED IN MANUFACTURES | 439 | 129 | ¹ 568 | (NA) | ¹ 39 | 1 245 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 113 103 | 55 762 | 140 802 | 28 063 | 5 039 | 81 849 |
| 1472 | BARITE | 859 | 624 | 1 415 | 68 | 37 | (NA) |
| 1473 | FLUORSPAR. | 760 | 203 | 957 | 6 | 241 | 4 640 |
| 1481 | NONMETALLIC MINERAL SERVICES | 3 638 | 2 148 | 5 224 | 562 | (NA) | (NA) |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: | | | | | | |
| | MINERAL INDUSTRIES | 15 346 | 8 687 | 21 394 | 2 639 | 1 075 | 12 448 |
| | GYPSUM: | | | | | | |
| 1492 | MINERAL INDUSTRY | 1 127 | 873 | 1 857 | 143 | 67 | 871 |
| 1495 | PUMICE AND PUMICITE. | 2 011 | 921 | 2 641 | 291 | 114 | 1 995 |
| 1496 | TALC, SOAPSTONE, AND PYROPHYLLITE. | 443 | 265 | 613 | 95 | (NA) | (NA) |
| 1499 | NONMETALLIC MINERALS, N.E.C. | 7 493 | 3 902 | 10 076 | 1 319 | 599 | 5 317 |

See footnotes on next page.

TABLE 2A. **General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued**

Footnotes for table 2A.

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Represents the glass sand, molding sand, and industrial sand, n.e.c. subindustries.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

⁴Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

⁵Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

⁶Excludes data for 2 magnesite or bauxite establishments with employment in the range 100-249.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ² of primary products by establishment classified in— | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|----------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES | 1 229 131 | 444 505 | 379 982 | 246 092 | 158 552 | 435 695 | 189 339 | 246 356 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 540 171 | 216 232 | 214 694 | 47 845 | 61 400 | 117 761 | 34 015 | 83 746 | (x) | (x) | (x) | (x) |
| 1011 | IRON ORES | 10 936 | 8 979 | - | 1 360 | 597 | 1 221 | 187 | 1 034 | ³ 4 189 | (D) | - | - |
| 102 | COPPER, LEAD, ZINC, GOLD, AND SILVER ORES. | 358 725 | 140 652 | 138 275 | 31 667 | 48 131 | 94 193 | 27 540 | 66 653 | (x) | (x) | (x) | (x) |
| 103 | | 7 337 | ⁴ 5 739 | (⁴) | 511 | 1 087 | 3 066 | 2 114 | 952 | ⁵ 13 | 23 597 | (NA) | (D) |
| 104 | | | | | | | | | | | | | |
| 1044 | SILVER ORES | | | | | | | | | | | | |
| 106 | FERROALLOY ORES AND METAL MINING SERVICES. | 26 883 | 18 715 | 1 | 3 896 | 4 271 | 7 013 | 2 137 | 4 876 | (x) | (x) | (x) | (x) |
| 108 | | | | | | | | | | | | | |
| 109 | MISCELLANEOUS METAL ORES, URANIUM-RADIUM-VANADIUM ORES | 143 627 | 47 886 | 76 418 | 10 922 | 8 401 | 15 334 | 4 151 | 11 183 | (x) | (x) | (x) | (x) |
| 1094 | | 143 177 | 47 518 | 76 375 | 10 909 | 8 375 | 15 233 | 4 105 | 11 128 | ⁶ 147 | ⁶ 241 092 | - | - |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | 31 204 | ⁴ 23 681 | (⁴) | 3 201 | 4 322 | 6 339 | 542 | 5 797 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 30 603 | ⁴ 23 114 | (⁴) | 3 194 | 4 295 | 6 290 | 542 | 5 748 | 13 518 | 69 916 | - | - |
| 13 | OIL AND GAS EXTRACTION. | 565 272 | 162 377 | 150 014 | 178 106 | 74 775 | 274 356 | 145 892 | 128 464 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 345 509 | 117 760 | - | 167 037 | 60 712 | 252 619 | 145 763 | 106 856 | (x) | 1 055 994 | (x) | 3 291 |
| | | 300 381 | 103 238 | - | 142 871 | 54 272 | 213 516 | 122 872 | 90 644 | ⁷ 337 234 | 900 025 | ⁷ 166 | 18 838 |
| | | 45 128 | 14 522 | - | 24 166 | 6 440 | 39 103 | 22 891 | 16 212 | ⁸ 559 490 | 71 361 | ⁸ 579 197 | 69 060 |
| 1321 | NATURAL GAS LIQUIDS | 160 143 | 6 261 | 150 014 | 1 159 | 2 709 | 7 288 | - | 7 288 | ⁹ 35 173 | ⁹ 61 086 | - | - |
| 138 | OIL AND GAS FIELD SERVICES, DRILLING OIL AND GAS WELLS. | 59 620 | 38 356 | - | 9 910 | 11 354 | 14 449 | 129 | 14 320 | (x) | (x) | (x) | (x) |
| 1381 | | 44 330 | 29 194 | - | 8 219 | 6 917 | 9 891 | 126 | 9 765 | (x) | ¹⁰ 97 882 | (x) | (¹⁰) |
| 1382 | OIL AND GAS FIELD EXPLO- RATION SERVICES. | 4 170 | 2 708 | - | 861 | 601 | 870 | - | 870 | (x) | ¹⁰ 9 748 | (x) | (¹⁰) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 11 120 | 6 454 | - | 830 | 3 836 | 3 688 | 3 | 3 685 | (x) | ¹⁰ 35 371 | (x) | (¹⁰) |
| 14 | NONMETALLIC MINERALS MINING | 92 484 | ⁴ 57 489 | (⁴) | 16 940 | 18 055 | 37 239 | 8 890 | 28 349 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE, CRUSHED AND BROKEN LIME- STONE. | 3 432 | 2 405 | - | 354 | 673 | 985 | 31 | 954 | 4 977 | 10 228 | ¹¹ 6 671 | ¹¹ 9 032 |
| | | 1 496 | 950 | - | 224 | 322 | 574 | 29 | 545 | 2 189 | 5 226 | ¹¹ 1 546 | ¹¹ 2 693 |
| 144 | SAND AND GRAVEL | 14 263 | ⁴ 9 201 | (⁴) | 1 491 | 3 571 | 4 257 | 44 | 4 213 | 34 060 | ¹² 54 548 | ¹¹ 12 038 | (¹²) |
| | | 13 872 | ⁴ 8 942 | (⁴) | 1 463 | 3 467 | 4 093 | 43 | 4 050 | 33 722 | ¹² 44 972 | ¹³ 7 297 | (¹²) |
| 145 | CLAY AND RELATED MINERALS, BENTONITE | 8 041 | 6 700 | - | 754 | 587 | 704 | 13 | 691 | (x) | (x) | (x) | (x) |
| 1452 | | 4 522 | 3 815 | - | 446 | 261 | 299 | 4 | 295 | 859 | (D) | (D) | (D) |
| 1459 | CLAY AND RELATED MINER- ALS, N.E.C. | 3 066 | 2 525 | - | 279 | 262 | 292 | 6 | 286 | 534 | 7 833 | ¹¹ 396 | ¹¹ 568 |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 55 762 | ⁴ 32 648 | (⁴) | 12 026 | 11 088 | 28 063 | 8 225 | 19 838 | (x) | (x) | (x) | (x) |
| 148 | NONMETALLIC MINERALS SERVICES | 2 148 | 1 366 | - | 467 | 315 | 562 | - | 562 | (x) | (x) | (x) | (x) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 8 687 | ⁴ 5 033 | (⁴) | 1 844 | 1 810 | 2 639 | 577 | 2 062 | (x) | (x) | (x) | (x) |
| 1499 | | 3 902 | 2 734 | - | 309 | 859 | 1 319 | 108 | 1 211 | (x) | 10 066 | (x) | (D) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere specified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates.

⁴Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁵Represents crude ore mined, hence, is not directly comparable with the value of net shipments shown in succeeding columns.

⁶Represents the value of uranium-vanadium concentrates shipped.

⁷Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁸Represents millions of cubic feet of natural gas shipped.

⁹Represents natural gas liquids only. The quantity figure is in thousands of barrels.

¹⁰Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

¹¹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated. However, for the crushed and broken limestone subindustry, excludes stone used in making cement. For clay and related minerals, n.e.c. excludes such clay produced in other mineral industries.

¹²Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. For sand and gravel industry, see also footnote 11. For the construction sand and gravel subindustry, see also footnote 13. For the construction sand and gravel subindustry, represents gross shipments.

¹³Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. **Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963**

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Separately operated preparation plants | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 2 2 936 | 2 2 466 | 1 660 | 417 | 252 | 991 | 704 | 160 | 512 | 32 | 102 | 470 |
| | NUMBER OF EMPLOYEES..... | 2 63 267 | 2 62 177 | 23 149 | 4 830 | 5 259 | 13 050 | 33 547 | 19 339 | 13 184 | 1 024 | 5 491 | 1 090 |
| | VALUE ADDED IN MINING.....\$1,000.. | 1 978 155 | 1 981 000 | 1 191 859 | 86 458 | 108 850 | 996 551 | 662 187 | 350 867 | 290 799 | 20 521 | 126 954 | (³) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 874 | 568 | 424 | 319 | 98 | 7 | 114 | 53 | 56 | 5 | 30 | 306 |
| | NUMBER OF EMPLOYEES..... | 37 880 | 37 170 | 11 865 | 4 187 | 4 620 | 3 058 | 21 149 | 11 837 | 8 614 | 698 | 4 156 | 710 |
| | VALUE ADDED IN MINING.....\$1,000.. | 728 224 | 726 456 | 203 198 | 81 247 | 100 039 | 21 912 | 446 325 | 208 854 | 220 984 | 16 487 | 76 933 | 1 768 |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 30 | 23 | 14 | 1 | 13 | - | 9 | 1 | 8 | - | - | 7 |
| | NUMBER OF EMPLOYEES..... | 1 075 | 1 056 | 285 | (D) | (D) | - | 771 | (D) | (D) | - | - | 19 |
| | VALUE ADDED IN MINING.....\$1,000.. | 25 328 | 25 323 | 10 329 | (D) | (D) | - | 14 994 | (D) | (D) | - | - | 5 |
| 102 | COPPER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 132 | 79 | 45 | 23 | 21 | 1 | 27 | 11 | 16 | - | 7 | 53 |
| | NUMBER OF EMPLOYEES..... | 22 034 | 21 906 | 8 101 | (D) | 4 202 | (D) | 10 840 | 3 536 | 7 304 | - | 2 965 | 128 |
| | VALUE ADDED IN MINING.....\$1,000.. | 400 722 | 400 726 | 120 010 | (D) | 85 217 | (D) | 227 793 | 43 792 | 184 001 | - | 52 923 | (³) |
| 103 | LEAD AND ZINC ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 124 | 82 | 59 | 49 | 9 | 1 | 19 | 17 | 1 | 1 | 4 | 42 |
| | NUMBER OF EMPLOYEES..... | 4 444 | 4 329 | 1 280 | 894 | (D) | (D) | 2 754 | (D) | (D) | (D) | 295 | 115 |
| | VALUE ADDED IN MINING.....\$1,000.. | 40 545 | 40 857 | 10 195 | 7 173 | (D) | (D) | 28 196 | (D) | (D) | (D) | 2 466 | (³) |
| 104 | GOLD AND SILVER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 232 | 99 | 65 | 38 | 25 | 2 | 33 | 14 | 18 | 1 | 1 | 133 |
| | NUMBER OF EMPLOYEES..... | 1 673 | 1 418 | (D) | 50 | 150 | (D) | 1 215 | 1 195 | (D) | (D) | (D) | 255 |
| | VALUE ADDED IN MINING.....\$1,000.. | 22 632 | 22 618 | (D) | 347 | 1 354 | (D) | 20 879 | 20 797 | (D) | (D) | (D) | 14 |
| 106 | FERROALLOY ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 33 | 10 | 3 | 1 | 2 | - | 5 | 3 | 2 | - | 2 | 23 |
| | NUMBER OF EMPLOYEES..... | 2 267 | 2 144 | (D) | (D) | (D) | - | 2 107 | (D) | (D) | - | (D) | 123 |
| | VALUE ADDED IN MINING.....\$1,000.. | 56 645 | 54 708 | (D) | (D) | (D) | - | 53 937 | (D) | (D) | - | (D) | 1 937 |
| 109 | MISCELLANEOUS METAL ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 323 | 275 | 238 | 207 | 28 | 3 | 21 | 7 | 11 | 3 | 16 | 48 |
| | NUMBER OF EMPLOYEES..... | 6 387 | 6 317 | 1 969 | 1 868 | 93 | 8 | 3 462 | 2 266 | (D) | (D) | 886 | 70 |
| | VALUE ADDED IN MINING.....\$1,000.. | 184 212 | 184 084 | 60 591 | 55 388 | 5 034 | 169 | 102 386 | 61 713 | (D) | (D) | 21 107 | 128 |
| 12 | BITUMINOUS COAL & LIGNITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 206 | 202 | 102 | 85 | 12 | 5 | 98 | 83 | 15 | - | 2 | 4 |
| | NUMBER OF EMPLOYEES..... | 4 3 814 | 4 3 778 | (D) | (D) | 136 | (D) | 3 389 | 2 976 | 413 | - | (D) | 36 |
| | VALUE ADDED IN MINING.....\$1,000.. | 456 590 | 456 426 | (D) | (D) | 2 305 | (D) | 51 004 | 40 710 | 10 294 | - | (D) | 164 |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 169 | 1 034 | 976 | - | - | 976 | - | - | - | - | 58 | 135 |
| | NUMBER OF EMPLOYEES..... | 11 270 | (D) | 9 872 | - | - | 9 872 | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 1 016 499 | (D) | 973 659 | - | - | 973 659 | - | - | - | - | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 109 | 976 | 976 | - | - | 976 | - | - | - | - | - | 133 |
| | NUMBER OF EMPLOYEES..... | 10 091 | 9 872 | 9 872 | - | - | 9 872 | - | - | - | - | - | 219 |
| | VALUE ADDED IN MINING.....\$1,000.. | 969 292 | 973 659 | 973 659 | - | - | 973 659 | - | - | - | - | - | (³) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 60 | 58 | - | - | - | - | - | - | - | - | 58 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 179 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 47 207 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 687 | 662 | 158 | 13 | 142 | 3 | 492 | 24 | 441 | 27 | 12 | 25 |
| | NUMBER OF EMPLOYEES..... | 10 303 | (D) | (D) | (D) | 503 | (D) | 9 009 | 4 526 | 4 157 | 326 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 176 942 | (D) | (D) | (D) | 6 506 | (D) | 164 858 | 101 303 | 59 521 | 4 034 | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 82 | 81 | 4 | - | 4 | - | 75 | 2 | 72 | 1 | 2 | 1 |
| | NUMBER OF EMPLOYEES..... | 644 | (D) | (D) | - | (D) | - | 588 | (D) | 537 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 841 | (D) | (D) | - | (D) | - | 7 059 | (D) | 6 689 | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 342 | 336 | 29 | - | 29 | - | 302 | - | 278 | 24 | 5 | 6 |
| | NUMBER OF EMPLOYEES..... | 2 346 | (D) | (D) | - | (D) | - | 2 218 | - | 2 055 | 163 | 35 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 28 039 | (D) | (D) | - | (D) | - | 27 098 | - | 25 417 | 1 681 | 294 | (D) |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 61 | 61 | 41 | 3 | 37 | 1 | 20 | - | 20 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 825 | 825 | 223 | (D) | 107 | (D) | 602 | - | 602 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 961 | 11 961 | 2 030 | (D) | 1 072 | (D) | 9 931 | - | 9 931 | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 62 | 53 | 20 | 4 | 16 | - | 31 | 13 | 16 | 2 | 2 | 9 |
| | NUMBER OF EMPLOYEES..... | 5 366 | 5 273 | (D) | (D) | 97 | - | 4 716 | 4 223 | (D) | (D) | (D) | (³) |
| | VALUE ADDED IN MINING.....\$1,000.. | 113 103 | 113 509 | (D) | (D) | 1 938 | - | 107 588 | 97 102 | (D) | (D) | (D) | (³) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 119 | 110 | 43 | 6 | 37 | - | 64 | 9 | 55 | - | 3 | 9 |
| | NUMBER OF EMPLOYEES..... | 1 025 | 1 022 | 125 | 18 | 107 | - | 885 | (D) | (D) | - | 12 | (³) |
| | VALUE ADDED IN MINING.....\$1,000.. | 15 346 | 15 374 | 2 044 | 84 | 1 960 | - | 13 182 | (D) | (D) | - | 148 | (³) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Includes data for five nonmetallic mineral mining service establishments two in Wyoming, two in Nevada, and one in Arizona; also includes data for seven coal mining service establishments, three in New Mexico, three in Wyoming and one in Arizona.

³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

⁴Includes data for seven coal mining service establishments three in New Mexico, three in Wyoming and one in Arizona.

⁵Includes data for five nonmetallic mineral mining service establishments, two in Wyoming, two in Nevada, and one in Arizona.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

PACIFIC

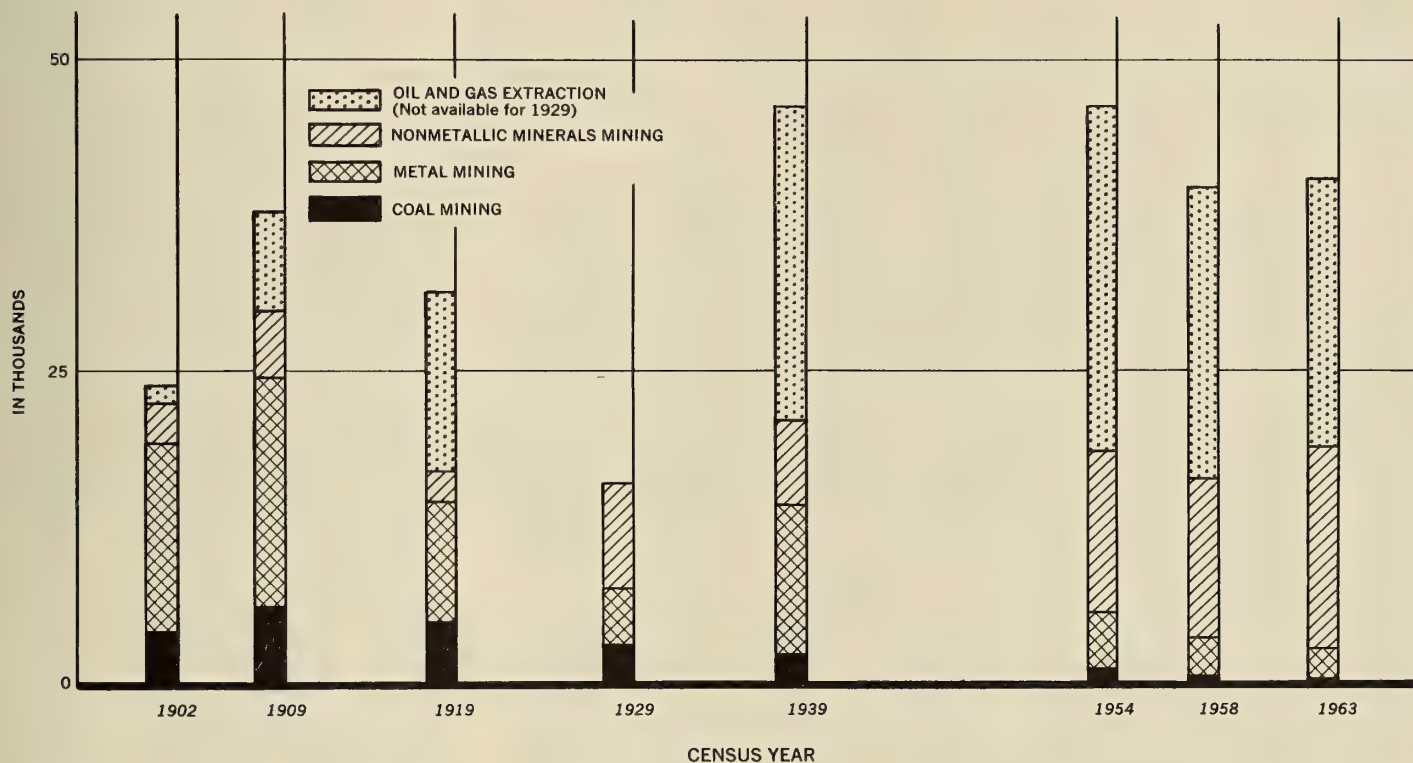


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|---|---|---------------------------------------|-----------------------|-------------------------------|--|-----------------------|-------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 2 370 | 330 | 38 398 | 279 044 | 28 877 | 57 805 | 197 092 | 1 353 316 |
| 1958. | 2 235 | 326 | 38 444 | 238 198 | 27 233 | 55 644 | 149 939 | 1 278 654 |
| 1954 ¹ | 2 962 | 376 | 45 505 | 233 802 | 34 571 | 69 708 | 163 902 | ²¹ 365 822 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | 2 589 | 354 | 40 584 | 290 175 | 31 032 | 62 098 | 208 027 | 1 397 169 |
| 1958. | 2 411 | 342 | 39 857 | 245 355 | 28 636 | 58 419 | 157 031 | 1 313 199 |
| 1954 ³ | 3 068 | 388 | 46 426 | 237 558 | 35 490 | 71 542 | 167 651 | 1 383 504 |
| 1939 ⁴ | ⁵² 354 | (NA) | 46 399 | 85 105 | 38 764 | 77 826 | 64 350 | 333 283 |
| 1919 ⁶ | 1 290 | (NA) | 31 418 | 52 804 | 28 298 | (NA) | 46 116 | 144 708 |
| 1909 ⁶ | 3 365 | (NA) | 37 886 | 35 946 | 34 814 | (NA) | 31 701 | 51 963 |
| 1902 ⁷ | ⁵² 775 | (NA) | 24 054 | 21 608 | ⁸²¹ 631 | (NA) | 18 608 | 27 445 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | 1 709 | 201 | 19 083 | 124 359 | 15 547 | 32 105 | 96 652 | 333 767 |
| 1958. | 1 455 | 180 | 16 482 | 92 384 | 13 075 | 28 018 | 69 636 | 262 175 |
| 1954 ³ | 2 081 | 188 | 18 712 | 88 939 | 15 185 | 31 691 | 69 353 | ⁹²¹³ 299 |
| 1939 ⁴ | ⁵¹ 102 | (NA) | 21 184 | 34 408 | 18 995 | 41 559 | 28 976 | 75 177 |
| 1929 ¹⁰ | 786 | (NA) | 16 100 | 26 170 | 14 442 | (NA) | 21 915 | 41 524 |
| 1919 ⁶ | 874 | (NA) | 17 118 | 26 427 | 15 863 | (NA) | 23 558 | 37 672 |
| 1909 ⁶ | 2 855 | (NA) | 29 770 | 26 910 | 27 872 | (NA) | 24 128 | 40 545 |
| 1902 ¹¹ | ⁵² 470 | (NA) | 22 527 | 20 042 | ⁸²⁰ 498 | (NA) | 17 509 | 24 390 |
| Selected expenses | | | | | | | | |
| Kind of operation and year | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Value of shipments and receipts ¹² | Capital expenditures | Energy used (kwh. equivalent) | Horsepower rating of power equipment |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | Total (million) | Per production worker (1,000) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 232 631 | 150 414 | 167 669 | 64 173 | 1 699 304 | 268 899 | 38 548 | 1 335 |
| 1958. | ¹³ 181 076 | ¹³ 108 676 | 116 570 | 50 099 | 1 557 051 | 178 024 | 37 822 | 1 389 |
| 1954 ¹ | 181 030 | ²²⁹ 371 | 146 476 | 76 296 | ²¹ 565 884 | 233 161 | 39 874 | 1 153 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | ¹⁴ 243 546 | 150 615 | ¹⁴ 167 673 | ¹⁵ 64 216 | 1 754 249 | ¹⁵ 268 970 | ¹⁵ 38 548 | 1 335 |
| 1958. | ¹⁴ 188 282 | ¹³ 108 677 | ¹⁴ 116 624 | ¹⁵ 50 149 | 1 598 856 | ¹⁵ 178 075 | ¹⁵ 37 829 | 1 321 |
| 1954 ³ | ¹⁴ 185 065 | ²²⁹ 372 | ¹⁴ 146 487 | ¹⁷⁶ 321 | 1 587 587 | ¹⁵ 233 212 | ¹⁵ 39 876 | 1 124 |
| 1939 ⁴ | 46 357 | (NA) | 20 782 | (NA) | 400 422 | (NA) | 29 396 | 758 |
| 1919 ⁶ | 47 251 | 876 | 2 035 | (NA) | 194 870 | (NA) | ¹⁶ 22 213 | 785 |
| 1909 ⁶ | 31 610 | 2 919 | 2 495 | (NA) | 88 987 | (NA) | (NA) | (NA) |
| 1902 ⁷ | 8 002 | (NA) | 807 | (NA) | 36 351 | (NA) | (NA) | (NA) |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | ¹⁴ 99 400 | 1 432 | ¹⁴ 12 017 | ¹⁵ 27 818 | 433 803 | ¹⁵ 40 631 | ¹⁵ 8 143 | 608 |
| 1958. | ¹⁴ 77 175 | ¹³² 235 | ¹⁴ 10 662 | ¹⁵ 14 484 | 335 783 | ¹⁵ 30 948 | ¹⁵ 7 872 | 602 |
| 1954 ³ | ¹⁴ 176 062 | ²¹⁷⁵ 411 | ¹⁴ 11 468 | ¹⁵ 20 312 | ²⁸¹ 828 | ¹⁵ 31 571 | ¹⁵ 6 462 | 426 |
| 1939 ⁴ | 21 856 | (NA) | 462 | (NA) | 97 495 | (NA) | 3 339 | 176 |
| 1929 ¹⁰ | 13 131 | (NA) | 870 | 2 835 | 55 525 | (NA) | 1 575 | 109 |
| 1919 ⁶ | 16 797 | 366 | 1 016 | (NA) | 55 851 | (NA) | ¹⁶² 515 | 159 |
| 1909 ⁶ | 14 122 | 2 915 | 2 095 | (NA) | 59 677 | (NA) | (NA) | (NA) |
| 1902 ¹¹ | 6 508 | (NA) | 458 | (NA) | 31 356 | (NA) | (NA) | (NA) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Includes data for one crushed stone quarry in Hawaii operated as part of an establishment primarily producing ready-mixed concrete.

²Excludes data for the Uranium-Radium-Vanadium Ores Industry. For minerals received for preparation at natural gas liquids plants, excludes the cost of natural gas processed, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

³Excludes data for sand and gravel mining operations in manufacturing establishments.

⁴Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operations in California was \$47 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for other dimension stone operations is not available. For "Excluding oil and gas extraction industries," includes data for 2 establishments in Washington in the Crude Petroleum and Natural Gas Industry. Excludes figures for Alaska and Hawaii.

⁵Represents number of mines and quarries, number of natural gas liquids plants, and, for crude petroleum and natural gas and mining services industries, number of operating companies.

⁶Excludes data for sand and gravel mining operations and for stone quarries operated as parts of cement and lime establishments. The value of products of such establishments in 1929 was about \$12 million. See also footnote 10. For "Excluding oil and gas extraction industries," for 1919, includes data for 2 nonproducing establishments in Washington and 1 establishment in Alaska in the Crude Petroleum and Natural Gas Industry and for one such nonproducing establishment in Oregon in 1909. For Alaska in 1919, excludes data for 6 nonproducing operations.

⁷Excludes data for sand, gravel, common clay, and shale mining operations. Includes data for 2 cement plants and for lime plants producing lime valued at \$602

thousand. Excludes figures for Alaska and Hawaii.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹Excludes data for nonmetallic minerals mining in Alaska. See also footnote 2.

¹⁰Excludes data for common clay and shale mining operations. In 1939, there were 47 such mines with products valued at \$410 thousand. Excludes figures for Alaska and Hawaii.

¹¹Includes data for nonproducing crude petroleum establishments at which expenditures were about \$500 thousand. See also footnote 7.

¹²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹³For Washington, the cost of minerals received for preparation in the Metal Mining and Nonmetallic Minerals Mining Industries is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For 1958, see also footnote 13.

¹⁵Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁶Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to only 2 percent of the total kwh. equivalent of energy used; but for "Excluding oil and gas extraction industries" in 1929, to 15 percent.

¹⁷Figures for minerals received for preparation in the Nonmetallic Minerals Mining Industries in California are included with those for supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 589 | 354 | 40 584 | 290 175 | 31 032 | 62 098 | 208 027 |
| | MINERAL INDUSTRIES | 2 370 | 330 | 38 398 | 279 044 | 28 877 | 57 805 | 197 092 |
| | INCLUDED IN MANUFACTURES | 219 | 24 | 12 186 | 11 131 | 12 155 | 4 293 | 10 935 |
| 10 | METAL MINING | 342 | 15 | 2 535 | 17 877 | 2 138 | 4 506 | 13 654 |
| 1011 | IRON ORES | 9 | 1 | 525 | 4 301 | 496 | 1 079 | 4 090 |
| 102 | COPPER, LEAD, ZINC, GOLD, AND SILVER ORES | | | | | | | |
| 103 | | 260 | 7 | 1 116 | 7 818 | 874 | 1 830 | 4 794 |
| 104 | | 93 | 3 | 331 | 2 297 | 256 | 537 | 1 468 |
| 1042 | | 123 | 2 | 344 | 2 092 | 308 | 693 | 1 721 |
| 106 | FERROALLOY ORES | 15 | 3 | 510 | 3 167 | 468 | 913 | 2 966 |
| 109 | MISCELLANEOUS METAL ORES | 50 | 4 | 372 | 2 548 | 289 | 662 | 1 764 |
| 1092 | MERCURY ORES | 34 | 2 | 225 | 1 353 | 200 | 449 | 1 122 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | 22 | 5 | 395 | 3 349 | 356 | 752 | 2 931 |
| 1211 | BITUMINOUS COAL | 19 | 5 | 387 | 3 304 | 348 | 736 | 2 886 |
| 13 | OIL AND GAS EXTRACTION | 880 | 153 | 21 501 | 165 816 | 15 485 | 29 993 | 111 375 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 524 | 51 | 13 543 | 108 941 | 8 584 | 16 740 | 63 430 |
| | CRUDE PETROLEUM | 482 | 46 | 12 917 | 104 326 | 8 163 | 15 875 | 60 558 |
| | NATURAL GAS | 42 | 5 | 626 | 4 615 | 421 | 865 | 2 872 |
| 1321 | NATURAL GAS LIQUIDS | 55 | 18 | 1 323 | 10 337 | 1 197 | 2 374 | 9 171 |
| 138 | OIL AND GAS FIELD SERVICES | 301 | 84 | 6 635 | 46 538 | 5 704 | 10 879 | 38 774 |
| 1381 | DRILLING OIL AND GAS WELLS | 94 | 45 | 3 025 | 23 221 | 2 720 | 5 353 | 20 656 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 20 | 6 | 986 | 6 077 | 843 | 1 391 | 4 587 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 187 | 33 | 2 624 | 17 240 | 2 141 | 4 135 | 13 531 |
| 14 | NONMETALLIC MINERALS MINING | 1 345 | 181 | 16 153 | 103 133 | 13 053 | 26 887 | 80 067 |
| | MINERAL INDUSTRIES | 1 126 | 157 | 13 967 | 92 002 | 10 898 | 22 554 | 69 132 |
| | INCLUDED IN MANUFACTURES | 219 | 24 | 12 186 | 11 131 | 12 155 | 4 293 | 10 935 |
| 1411 | DIMENSION STONE | 70 | 4 | 356 | 1 664 | 309 | 592 | 1 415 |
| | MINERAL INDUSTRY | 54 | - | 139 | 516 | 123 | 236 | 463 |
| | INCLUDED IN MANUFACTURES | 16 | 4 | 217 | 1 148 | 186 | 356 | 952 |
| | DIMENSION GRANITE SUBINDUSTRY | 13 | 3 | 215 | 1 121 | 185 | 385 | 936 |
| | DIMENSION STONE, N.E.C. | 51 | 1 | 119 | 492 | 105 | 180 | 433 |
| | MINERAL SUBINDUSTRY | 44 | - | 86 | 322 | 75 | 135 | 289 |
| 1421 | CRUSHED AND BROKEN STONE | 341 | 48 | 3 575 | 21 964 | 3 203 | 6 561 | 19 542 |
| | MINERAL INDUSTRY | 298 | 36 | 2 668 | 16 627 | 2 296 | 4 747 | 14 205 |
| | INCLUDED IN MANUFACTURES | 43 | 12 | 907 | 5 337 | 907 | 1 814 | 5 337 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY | 83 | 19 | 1 376 | 7 810 | 1 308 | 2 744 | 7 365 |
| | MINERAL SUBINDUSTRY | 54 | 8 | 572 | 3 013 | 504 | 1 136 | 2 568 |
| | INCLUDED IN MANUFACTURES | 29 | 11 | 804 | 4 797 | 804 | 1 608 | 4 797 |
| | CRUSHED AND BROKEN GRANITE; MINERAL SUBINDUSTRY | 44 | 4 | 401 | 2 697 | 312 | 661 | 2 048 |
| | CRUSHED AND BROKEN STONE, N.E.C.; MINERAL SUBINDUSTRY | 200 | 24 | 1 695 | 10 917 | 1 480 | 2 950 | 9 589 |
| 1441 | SAND AND GRAVEL | 686 | 99 | 7 134 | 44 679 | 5 965 | 12 318 | 36 722 |
| | MINERAL INDUSTRY | 568 | 98 | 6 452 | 41 574 | 5 285 | 10 952 | 33 617 |
| | INCLUDED IN MANUFACTURES | 118 | 1 | 682 | 3 105 | 682 | 1 366 | 3 105 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 549 | 95 | 6 286 | 40 454 | 5 156 | 10 664 | 32 810 |
| | GLASS SAND SUBINDUSTRY | 7 | 2 | 99 | 728 | 83 | 198 | 588 |
| | MOLDING SAND SUBINDUSTRY | 5 | - | 8 | 36 | 7 | 14 | 29 |
| | INDUSTRIAL SAND, N.E.C. SUBINDUSTRY | 7 | 1 | 59 | 356 | 37 | 76 | 190 |
| 1452 | CLAY AND RELATED MINERALS; BENTONITE | 10 | 2 | 95 | 733 | 84 | 176 | 652 |
| | FIRE CLAY | 15 | 2 | 125 | 546 | 120 | 244 | 525 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 50 | 7 | 520 | 2 618 | 477 | 9 922 | 2 260 |
| | MINERAL INDUSTRY | 19 | 3 | 244 | 1 570 | 213 | 397 | 1 212 |
| | INCLUDED IN MANUFACTURES | 31 | 4 | 264 | 1 048 | 264 | 525 | 1 048 |
| 1474 | POTASH, SODA, AND BORATE MINERALS | 9 | 4 | 2 656 | 20 209 | 1 514 | 3 154 | 10 609 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 397 169 | ² 626 050 | ¹ 754 249 | ³ 268 970 | ³ 9 857 | 1 313 199 |
| | MINERAL INDUSTRIES | 1 353 316 | 614 887 | 1 699 304 | 268 899 | ³ 8 444 | 1 278 654 |
| | INCLUDED IN MANUFACTURES | 43 853 | ² 11 163 | ¹ 54 945 | ³ 71 | ¹ 413 | ³ 4 545 |
| 10 | METAL MINING | 45 923 | 23 261 | 61 200 | 7 984 | 3 176 | 52 660 |
| 1011 | IRON ORES | 19 851 | 10 094 | 26 344 | 3 601 | 356 | 15 928 |
| 102 | COPPER, LEAD, ZINC, GOLD, AND SILVER ORES | 11 772 | 6 561 | 15 603 | 2 730 | ⁴ 1 025 | ⁴ 9 618 |
| 103 | | | | | | | |
| 104 | | 3 463 | 1 460 | 4 023 | 900 | ⁴ 321 | ⁴ 4 721 |
| 1042 | | | | | | (NA) | (NA) |
| 1043 | LODE GOLD | 5 760 | 2 493 | 7 493 | 760 | | |
| | PLACER GOLD | | | | | | |
| 106 | FERROALLOY ORES | 6 214 | 4 382 | 9 386 | 1 210 | ⁴ 487 | ⁴ 10 888 |
| 109 | MISCELLANEOUS METAL ORES | 7 979 | 2 195 | 9 742 | 432 | ⁴ 686 | ⁴ 9 804 |
| 1092 | MERCURY ORES | 2 117 | 1 044 | 2 882 | 279 | ⁴ 468 | ⁴ 4 577 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING | 6 216 | 2 277 | 7 578 | 915 | 533 | 7 389 |
| 1211 | BITUMINOUS COAL | 6 150 | 2 203 | 7 442 | 911 | 533 | 7 389 |
| 13 | OIL AND GAS EXTRACTION | 1 063 402 | 485 383 | 1 320 446 | 228 339 | 23 375 | 1 051 824 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 914 019 | 288 687 | 988 943 | 213 763 | 16 746 | ⁴ 945 738 |
| | CRUDE PETROLEUM | 874 318 | 275 405 | 941 582 | 208 141 | 16 267 | ⁴ 911 025 |
| | NATURAL GAS | 39 701 | 13 282 | 47 361 | 5 622 | 479 | ³ 4 713 |
| 1321 | NATURAL GAS LIQUIDS | 63 929 | 156 675 | 217 710 | 2 894 | 1 801 | 59 553 |
| 138 | OIL AND GAS FIELD SERVICES | 85 454 | 40 021 | 113 793 | 11 682 | 4 828 | ⁴ 48 529 |
| 1381 | DRILLING OIL AND GAS WELLS | 38 782 | 22 672 | 54 707 | 6 747 | ⁴ 2 673 | ⁴ 27 708 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 18 061 | 6 223 | 22 172 | 2 112 | ⁴ 203 | ⁴ 1 653 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 28 611 | 11 126 | 36 914 | 2 823 | ⁴ 1 917 | ⁴ 19 168 |
| 14 | NONMETALLIC MINERALS MINING | 281 628 | ² 115 129 | ¹ 365 023 | ³ 31 732 | 12 773 | 202 126 |
| | MINERAL INDUSTRIES | 237 775 | 103 966 | 310 080 | 31 661 | 11 360 | 167 581 |
| | INCLUDED IN MANUFACTURES | 43 853 | ² 11 163 | ¹ 54 945 | ³ 71 | ¹ 413 | ³ 4 545 |
| 1411 | DIMENSION STONE | 2 737 | 2 477 | 5 003 | 211 | 174 | 1 658 |
| | MINERAL INDUSTRY | 1 161 | 646 | 1 667 | 140 | 68 | 785 |
| | INCLUDED IN MANUFACTURES | 1 576 | 1 831 | 3 336 | 71 | 106 | 873 |
| | DIMENSION GRANITE SUBINDUSTRY | 1 542 | 1 945 | 3 392 | 95 | (NA) | (NA) |
| | DIMENSION STONE, N.E.C. | 1 043 | 497 | 1 444 | 96 | 77 | 866 |
| | MINERAL SUBINDUSTRY | 828 | 442 | 1 177 | 93 | (NA) | (NA) |
| 1421 | CRUSHED AND BROKEN STONE | 56 803 | ² 4 736 | ¹ 75 996 | (NA) | ⁵ 2 726 | ⁵ 41 112 |
| | MINERAL INDUSTRY | 38 025 | 19 984 | 52 466 | 5 543 | ⁴ 2 078 | ⁴ 24 876 |
| | INCLUDED IN MANUFACTURES | 18 778 | ² 4 752 | 123 530 | (NA) | ¹ 6448 | ⁶ 16 236 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY | 24 074 | ² 6 184 | 129 499 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY | 6 560 | 2 309 | 8 110 | 759 | 550 | ⁴ 883 |
| | INCLUDED IN MANUFACTURES | 17 514 | ² 3 875 | 121 389 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN GRANITE: MINERAL SUBINDUSTRY | 8 772 | 3 662 | 10 916 | 1 518 | ⁴ 314 | ⁴ 5 136 |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 22 693 | 14 013 | 33 440 | 3 266 | 1 214 | 14 857 |
| 1441 | SAND AND GRAVEL | 121 897 | ² 50 077 | ¹ 156 665 | (NA) | 5 284 | 87 266 |
| | MINERAL INDUSTRY | 105 449 | 46 853 | 136 993 | 15 309 | ⁴ 838 | 74 029 |
| | INCLUDED IN MANUFACTURES | 16 448 | ² 3 224 | 119 672 | (NA) | ¹ 6446 | ⁶ 13 237 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 101 656 | 44 948 | 131 752 | 14 852 | ⁷ 4 707 | ⁷ 71 074 |
| | GLASS SAND SUBINDUSTRY | 2 916 | 1 624 | 4 184 | 356 | 131 | 2 955 |
| | MOLDING SAND SUBINDUSTRY | 66 | 89 | 142 | 13 | | |
| | INDUSTRIAL SAND, N.E.C. SUBINDUSTRY | 811 | 192 | 915 | 88 | (7) | (7) |
| 1452 | CLAY AND RELATED MINERALS: BENTONITE | 836 | 614 | 1 110 | 390 | (NA) | (NA) |
| | FIRE CLAY | 1 441 | ² 909 | ¹ 2 132 | (NA) | ¹ 70 | 1 085 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 7 483 | ² 3 096 | ¹ 10 160 | (NA) | ⁸ 232 | ⁸ 2 206 |
| | MINERAL INDUSTRY | 3 967 | 2 175 | 5 723 | 419 | ⁸ 105 | ⁸ 1 180 |
| | INCLUDED IN MANUFACTURES | 3 516 | ² 921 | 14 437 | (NA) | ¹ 127 | ⁶ 1 026 |
| 1474 | POTASH, SODA, AND BORATE MINERALS | 57 230 | 19 130 | 71 575 | 4 785 | 2 554 | 40 908 |

See footnotes at end of table.

**TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued**

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 1481 | NONMETALLIC MINERALS SERVICES | 10 | 3 | 136 | 813 | 128 | 238 | 714 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 128 | 8 | 1 317 | 8 624 | 1 045 | 2 156 | 6 552 |
| 1492 | GYPSUM: MINERAL INDUSTRY. | 9 | 1 | 81 | 436 | 66 | 161 | 336 |
| 1495 | PUMICE AND PUMICITE | 45 | 1 | 125 | 566 | 114 | 226 | 516 |
| 1496 | TALC, SOAPSTONE, AND PYROPHYLLITE | 28 | - | 141 | 1 084 | 98 | 181 | 574 |
| 1498 | PEAT. | 16 | - | 62 | 212 | 40 | 77 | 146 |
| 1499 | NONMETALLIC MINERALS, N.E.C.. . . . | 25 | 6 | 899 | 6 287 | 718 | 1 495 | 4 926 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 1481 | NONMETALLIC MINERALS SERVICES | 1 463 | 692 | 2 107 | 48 | (NA) | (NA) |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 26 375 | 12 319 | 34 170 | 4 524 | 1 188 | 18 921 |
| 1492 | GYPSUM: MINERAL INDUSTRY. | 1 803 | 435 | 2 091 | 147 | 68 | 1 401 |
| 1495 | PUMICE AND PUMICITE | 2 096 | 887 | 2 611 | 372 | 196 | 2 089 |
| 1496 | TALC, SOAPSTONE, AND PYROPHYLLITE | 2 072 | 1 182 | 2 989 | 265 | (NA) | (NA) |
| 1498 | PEAT. | 455 | 174 | 323 | 106 | (NA) | (NA) |
| 1499 | NONMETALLIC MINERALS, N.E.C.. . . . | 19 758 | 9 513 | 25 769 | 3 502 | 769 | 13 593 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

³Excludes figures for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

⁴Excludes figures for Alaska.

⁵Excludes figures for one establishment in Alaska and one establishment in manufactures in Hawaii.

⁶Excludes figures for Hawaii.

⁷Figures for the industrial sand, n.e.c. subindustry are included with those for the construction sand and gravel subindustry.

⁸Excludes figures for two magnesite or brucite establishments with employment in the range 100-249.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963¹

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments ² of primary products by establishment classified in— | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|------------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 614 887 | 232 631 | 150 414 | 167 669 | 64 173 | 268 899 | 181 063 | 87 836 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 23 261 | 16 205 | 60 | 2 169 | 4 827 | 7 984 | 2 235 | 5 749 | (x) | (x) | (x) | (x) |
| 1011 | IRON ORES. | 10 094 | 6 040 | - | 596 | 3 458 | 3 601 | 140 | 3 461 | ³ 3 795 | (D) | - | - |
| 102 | COPPER, LEAD, ZINC, GOLD, AND SILVER ORES. | 6 561 | 4 859 | - | 988 | 714 | 2 730 | 1 687 | 1 043 | (x) | (x) | (x) | (x) |
| 103 | | 2 493 | 1 959 | - | 325 | 209 | 760 | 337 | 423 | ⁴ 1 926 | 6 752 | - | - |
| 104 | PLACER GOLD. | 2 493 | 1 959 | - | 325 | 209 | 760 | 337 | 423 | (x) | (x) | (x) | (x) |
| 1043 | FERROALLOY ORES. | 4 382 | 3 797 | 60 | 41 | 484 | 1 210 | 221 | 989 | (x) | (x) | (x) | (x) |
| 106 | MISCELLANEOUS METAL ORES. | 2 195 | 1 483 | - | 543 | 169 | 432 | 187 | 245 | (x) | (x) | (x) | (x) |
| 109 | | | | | | | | | | | | | |
| 12 | BITUMINOUS COAL AND LIGNITE MINING. | 2 277 | 1 552 | - | 154 | 571 | 915 | 271 | 644 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL. | 2 203 | 1 481 | - | 154 | 568 | 911 | 271 | 640 | 1 055 | 7 400 | - | - |
| 13 | OIL AND GAS EXTRACTION. | 485 383 | 144 146 | 149 183 | 155 656 | 36 398 | 228 339 | 177 237 | 51 102 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 288 687 | 115 784 | - | 149 375 | 23 528 | 213 763 | 176 944 | 36 819 | (x) | 984 659 | (x) | 553 |
| | CRUDE PETROLEUM. | 275 405 | 110 943 | - | 141 715 | 22 747 | 208 141 | 174 220 | 33 921 | ⁵ 17 260 | 789 397 | ⁵ 2 754 | 6 477 |
| | NATURAL GAS. | 13 282 | 4 841 | - | 7 660 | 781 | 5 622 | 2 724 | 2 898 | ⁶ 140 903 | 41 014 | ⁶ 438 565 | 148 324 |
| 1321 | NATURAL GAS LIQUIDS. | 156 675 | 5 319 | 149 183 | 1 077 | 1 096 | 2 894 | - | 2 894 | ⁷ 26 308 | 770 118 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. DRILLING OIL AND GAS WELLS. | 40 021 | 23 043 | - | 5 204 | 11 774 | 11 682 | 293 | 11 389 | (x) | (x) | (x) | (x) |
| 1381 | OIL AND GAS FIELD EXPLO- RATION SERVICES. | 22 672 | 12 536 | - | 3 100 | 7 036 | 6 747 | 32 | 6 715 | (x) | ⁸ 53 189 | (x) | (⁸) |
| 1382 | OIL AND GAS FIELD SERV- ICES, N.E.C. | 6 223 | 3 486 | - | 364 | 2 373 | 2 112 | - | 2 112 | (x) | ⁸ 20 095 | (x) | (⁸) |
| 1389 | | 11 126 | 7 021 | - | 1 740 | 2 365 | 2 823 | 261 | 2 562 | (x) | ⁸ 59 569 | (x) | (⁸) |
| 14 | NONMETALLIC MINERALS MINING. | 103 966 | 70 728 | 1 171 | 9 690 | 22 377 | 31 661 | 1 320 | 30 341 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE, CRUSHED AND BROKEN LIMESTONE. | 19 984 | 13 393 | 912 | 1 969 | 3 710 | 5 543 | 123 | 5 420 | 28 212 | 47 283 | ⁹ 18 786 | ⁹ 25 571 |
| | CRUSHED AND BROKEN GRANITE. | 2 309 | 1 927 | 111 | 152 | 119 | 759 | 20 | 739 | 4 494 | 7 720 | ⁹ 3 067 | ⁹ 5 358 |
| | CRUSHED AND BROKEN STONE, N.E.C. | 3 662 | 2 821 | - | 123 | 718 | 1 518 | 42 | 1 476 | 5 329 | 10 663 | 42 | 35 |
| | | 14 013 | 8 645 | 801 | 1 694 | 2 873 | 3 266 | 61 | 3 205 | 18 258 | 28 754 | ⁹ 2 915 | ⁹ 4 063 |
| 1441 | SAND AND GRAVEL. | 46 853 | 30 899 | 169 | 3 871 | 11 914 | 15 309 | 222 | 15 087 | 110 024 | ⁹ 1045 697 | ⁹ 16 374 | (¹⁰) |
| | CONSTRUCTION SAND AND GRAVEL. | 44 948 | 29 960 | 169 | 3 732 | 11 087 | 14 852 | 222 | 14 630 | 108 570 | ¹⁰ 1135 559 | ¹¹ 12 628 | (¹⁰) |
| 1459 | CLAY AND RELATED MINERALS, N.E.C. | 2 175 | 1 593 | - | 324 | 258 | 419 | 35 | 384 | 956 | 5 723 | ⁹ 2 422 | ⁹ 4 437 |
| 1474 | POTASH, SODA, AND BORATE MINERALS. | 19 130 | 15 630 | - | 685 | 2 815 | 4 785 | 530 | 4 255 | 6 870 | 186 524 | - | - |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 12 319 | 6 872 | 90 | 2 377 | 2 980 | 4 524 | 248 | 4 276 | (x) | (x) | (x) | (x) |
| 1499 | NONMETALLIC MINERALS, N.E.C. | 9 513 | 5 161 | - | 1 971 | 2 381 | 3 502 | 141 | 3 361 | (x) | (D) | (x) | (D) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Quantity represents thousands of long tons.

⁴Represents thousands of fine ounces.

⁵Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁶Represents millions of cubic feet of natural gas shipped.

⁷Represents net shipments of natural gas liquids only. Quantity is in thousands of barrels.

⁸Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated. However, the separate figures for limestone include only stone produced and used in making lime; and the separate figures for stone, n.e.c. include only stone produced and used in making ready mixed concrete and asphalt and tar paving mixtures.

¹⁰Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.

¹¹Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|---------------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 2 049 | 1 802 | 807 | 50 | 271 | 486 | 921 | 28 | 781 | 112 | 74 | 247 |
| | NUMBER OF EMPLOYEES..... | ^{2,3,4} 28 770 | ² 28 099 | 12 153 | 155 | 696 | 11 302 | ^{2,4} 400 | 968 | ^{2,10} 488 | ² 944 | ¹ 546 | ^{3,4} 671 |
| | VALUE ADDED IN MINING....\$1,000.. | ^{2,3,4} 1266 292 | ² 1 270 477 | 932 041 | 1 996 | 10 731 | 919 314 | 272 338 | 12 504 | ^{2,14} 954 | ⁴⁴ 880 | ⁶⁶ 098 | (⁵) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 334 | 189 | 68 | 30 | 37 | 1 | 121 | 19 | 97 | 5 | - | 145 |
| | NUMBER OF EMPLOYEES..... | ² 2 370 | ² 2 083 | 176 | 62 | (D) | (D) | ² 1 907 | (D) | ² 937 | (D) | - | 287 |
| | VALUE ADDED IN MINING....\$1,000.. | ² 45 816 | ² 45 580 | 2 666 | 681 | (D) | (D) | ^{2,42} 914 | (D) | ^{2,30} 306 | (D) | - | 236 |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 9 | 6 | 4 | - | 4 | - | 2 | - | 2 | - | - | 3 |
| | NUMBER OF EMPLOYEES..... | 525 | 521 | (D) | - | (D) | - | (D) | - | (D) | - | - | 4 |
| | VALUE ADDED IN MINING....\$1,000.. | 19 849 | 19 852 | (D) | - | (D) | - | (D) | - | (D) | - | - | (⁵) |
| 104 | GOLD AND SILVER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 228 | 132 | 46 | 20 | 25 | 1 | 86 | 11 | 73 | 2 | - | 96 |
| | NUMBER OF EMPLOYEES..... | 667 | 533 | 60 | (D) | (D) | (D) | 473 | (D) | 304 | (D) | - | 134 |
| | VALUE ADDED IN MINING....\$1,000.. | 9 427 | 9 293 | 478 | (D) | (D) | (D) | 8 815 | (D) | 5 657 | (D) | - | 134 |
| 106 | FERROALLOY ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 15 | 3 | 2 | - | 2 | - | 1 | 1 | - | - | - | 12 |
| | NUMBER OF EMPLOYEES..... | 510 | 444 | (D) | - | (D) | - | (D) | (D) | - | - | - | 66 |
| | VALUE ADDED IN MINING....\$1,000.. | 6 214 | 6 148 | (D) | - | (D) | - | (D) | (D) | - | - | - | 66 |
| 109 | MISCELLANEOUS METAL ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 50 | 34 | 6 | 2 | 4 | - | 28 | 3 | 22 | 3 | - | 16 |
| | NUMBER OF EMPLOYEES..... | 345 | 324 | (D) | (D) | (D) | - | (D) | (D) | (D) | (D) | - | 21 |
| | VALUE ADDED IN MINING....\$1,000.. | 7 979 | 7 978 | (D) | (D) | (D) | - | (D) | (D) | (D) | (D) | - | 1 |
| 12 | BITUMINOUS COAL & LIGNITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 20 | 18 | 10 | 4 | 6 | - | 8 | 3 | 4 | 1 | - | 2 |
| | NUMBER OF EMPLOYEES..... | ³ 395 | (D) | 18 | 8 | 10 | - | (D) | (D) | 180 | (D) | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | ^{3,6} 216 | (D) | 158 | 40 | 118 | - | (D) | (D) | 4 907 | (D) | - | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 579 | 513 | 459 | - | - | 459 | - | - | - | - | 54 | 66 |
| | NUMBER OF EMPLOYEES..... | 12 823 | (D) | 11 223 | - | - | 11 223 | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 977 948 | (D) | 918 539 | - | - | 918 539 | - | - | - | - | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 524 | 459 | 459 | - | - | 459 | - | - | - | - | - | 65 |
| | NUMBER OF EMPLOYEES..... | 11 500 | 11 223 | 11 223 | - | - | 11 223 | - | - | - | - | - | 277 |
| | VALUE ADDED IN MINING....\$1,000.. | 914 019 | 918 539 | 918 539 | - | - | 918 539 | - | - | - | - | - | (⁴) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 55 | 54 | - | - | - | - | - | - | - | - | 54 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 323 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 63 929 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 116 | 1 082 | 270 | 16 | 228 | 26 | 792 | 6 | 680 | 106 | 20 | 34 |
| | NUMBER OF EMPLOYEES..... | ^{4,13} 182 | ¹³ 099 | 736 | 85 | (D) | (D) | (D) | (D) | 9 371 | (D) | (D) | ⁴ 83 |
| | VALUE ADDED IN MINING....\$1,000.. | ⁴ 236 312 | 236 397 | 10 678 | 1 275 | (D) | (D) | (D) | (D) | 179 741 | (D) | (D) | (⁵) |
| 141 | DIMENSION STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 54 | 51 | 48 | 1 | 46 | - | 3 | - | 3 | - | - | 3 |
| | NUMBER OF EMPLOYEES..... | 139 | 134 | (D) | (D) | (D) | - | (D) | - | (D) | - | - | 5 |
| | VALUE ADDED IN MINING....\$1,000.. | 1 161 | 1 170 | (D) | (D) | (D) | - | (D) | - | (D) | - | - | (⁵) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 298 | 289 | 37 | - | 37 | - | 243 | 3 | 240 | - | 9 | 9 |
| | NUMBER OF EMPLOYEES..... | 2 638 | (D) | (D) | - | (D) | - | (D) | (D) | 2 293 | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 38 025 | (D) | (D) | - | (D) | - | (D) | (D) | 32 615 | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 568 | 561 | 94 | - | 77 | 17 | 460 | - | 357 | 103 | 10 | 7 |
| | NUMBER OF EMPLOYEES..... | 6 442 | (D) | (D) | - | (D) | (D) | (D) | - | 4 694 | (D) | 161 | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 105 449 | (D) | (D) | - | (D) | (D) | (D) | - | 86 253 | (D) | 1 460 | (D) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 128 | 121 | 55 | 14 | 40 | 1 | 66 | - | 66 | - | - | 7 |
| | NUMBER OF EMPLOYEES..... | 1 347 | 1 342 | 126 | (D) | (D) | (D) | 1 216 | - | 1 216 | - | - | 5 |
| | VALUE ADDED IN MINING....\$1,000.. | 26 375 | 26 335 | 2 126 | (D) | (D) | (D) | 24 209 | - | 24 209 | - | - | 40 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Includes data for five metal mining service establishments in California.

³Includes data for two bituminous and lignite mining establishments in Washington.

⁴Includes data for two nonmetallic mining service establishments in Oregon.

⁵Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

(For county statistics, see table 3 of the individual State reports)

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services

109 Miscellaneous metal ores
110 Anthracite
11C Anthracite mining services
120 Bituminous coal and lignite
12C Coal mining services
131 Crude petroleum and natural gas
132 Natural gas liquids

138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures

145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|--|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| PACIFIC DIVISION, TOTAL. | 2 589 | 2 370 | 219 | 9 | 15 | 17 | 228 | - | 15 | 8 | 50 | - | - | 20 | 2 | 524 | 55 | 301 | 54 | 16 | 298 | 43 | 568 | 118 | 43 | 40 | 25 | 10 | 128 | 2 | |
| NO EMPLOYEES. | 535 | 530 | 5 | 4 | 5 | 6 | 127 | - | 3 | 1 | 22 | - | - | 4 | 1 | 118 | - | 33 | 16 | - | 45 | - | 87 | 4 | 14 | 1 | 6 | 1 | 37 | - | |
| 1-4 EMPLOYEES. | 1 026 | 930 | 96 | 2 | 5 | 9 | 75 | - | 6 | 7 | 18 | - | - | 6 | 1 | 261 | 3 | 104 | 26 | 9 | 121 | 13 | 204 | 56 | 14 | 18 | 12 | 5 | 51 | - | |
| 5-9 EMPLOYEES. | 370 | 315 | 55 | 1 | 2 | - | 14 | - | 2 | - | 3 | - | - | 4 | - | 58 | 12 | 38 | 9 | 1 | 52 | 9 | 98 | 33 | 1 | 11 | 2 | - | 19 | 1 | |
| 10-19 EMPLOYEES. | 304 | 265 | 39 | 1 | 3 | - | 7 | - | 1 | - | 3 | - | - | 1 | - | 36 | 22 | 42 | 3 | 2 | 44 | 9 | 81 | 24 | 7 | 4 | - | 1 | 13 | - | |
| 20-49 EMPLOYEES. | 222 | 205 | 17 | - | - | - | 2 | - | 1 | - | 2 | - | - | 2 | - | 24 | 12 | 50 | - | 2 | 29 | 9 | 69 | - | 6 | 5 | - | 3 | 5 | 1 | |
| 50-99 EMPLOYEES. | 74 | 70 | 4 | - | - | 1 | 2 | - | 1 | - | 1 | - | - | 2 | - | 8 | 4 | 18 | - | 2 | 6 | 1 | 25 | - | - | 1 | 2 | - | - | - | |
| 100-249 EMPLOYEES. | 40 | 37 | 3 | - | - | 1 | 1 | - | - | - | 1 | - | - | 1 | - | 9 | 2 | 14 | - | - | 1 | 2 | 4 | 1 | 1 | - | - | - | 2 | - | |
| 250-499 EMPLOYEES. | 10 | 10 | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | 5 | - | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | |
| 500-999 EMPLOYEES. | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | |
| 1000 EMPLOYEES AND OVER. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available

(X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

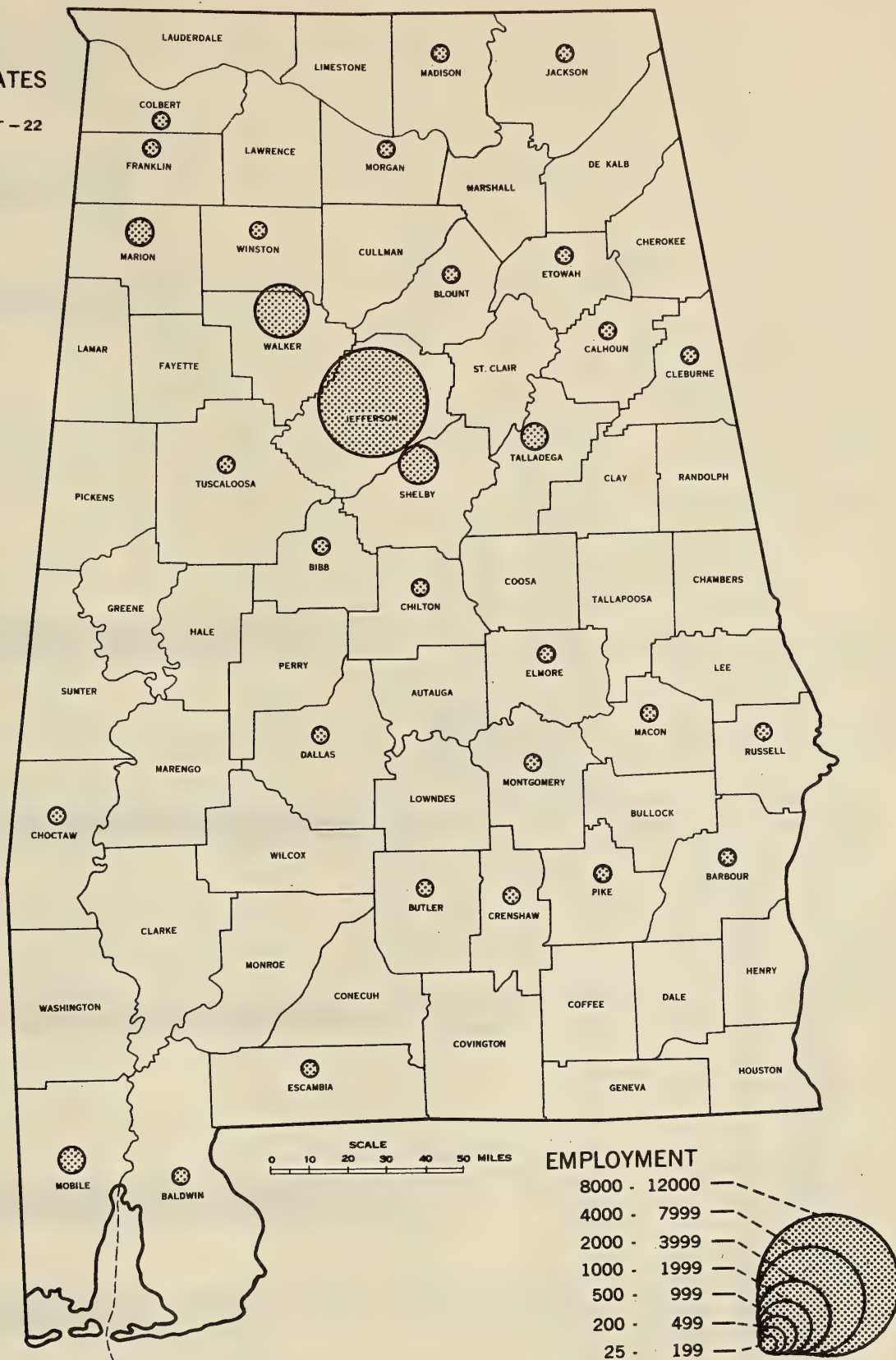
EMPLOYMENT IN MINING BY COUNTY: 1963

ALABAMA

RANK AMONG STATES

EMPLOYMENT - 19

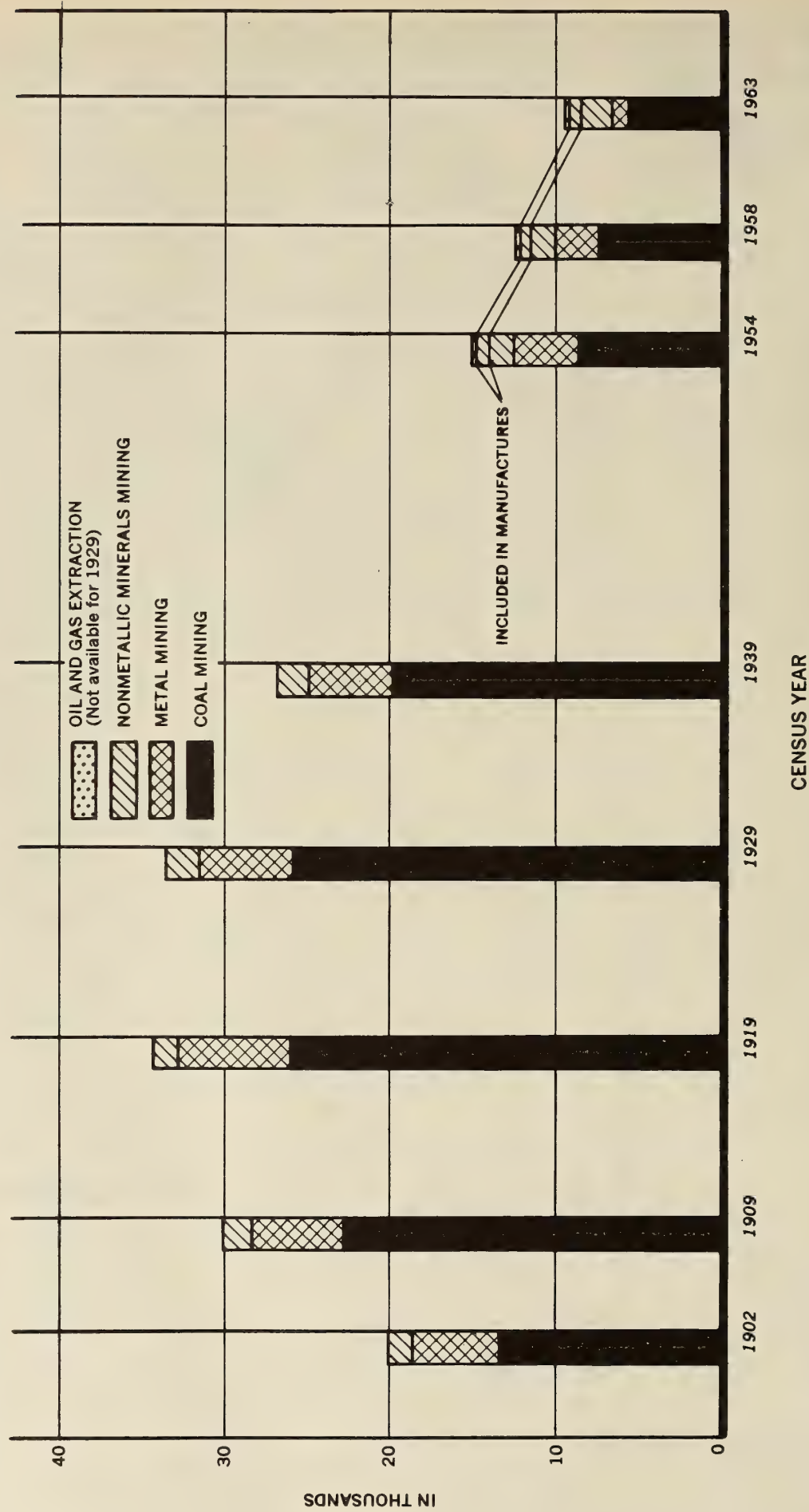
VALUE OF SHIPMENT - 22



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

ALABAMA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|---------------------------------------|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|-----------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963..... | 371 | 87 | 8 920 | 45 840 | 7 969 | 14 960 | 38 717 | 118 979 |
| 1958..... | 316 | 83 | 11 939 | 55 059 | 10 555 | 17 501 | 45 551 | 127 055 |
| 1954..... | 378 | 88 | 14 364 | 54 940 | 12 880 | 22 038 | 44 782 | 193 638 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| 1963..... | 416 | 98 | 9 537 | 48 529 | 8 556 | 16 150 | 41 306 | 126 658 |
| 1958..... | 357 | 91 | 12 583 | 57 389 | 11 174 | 18 745 | 47 742 | 138 254 |
| 1954 ² | 413 | 98 | 15 136 | 57 317 | 13 602 | 23 526 | 46 947 | 100 869 |
| 1939 ³ | 341 | (NA) | 26 953 | 26 449 | 25 758 | 39 827 | 23 764 | 33 849 |
| 1929 ⁵ | 222 | (NA) | 33 735 | 34 860 | 31 978 | (NA) | 30 938 | 43 342 |
| 1919 ⁶ | 264 | (NA) | 34 591 | 40 165 | 32 579 | (NA) | 36 230 | 49 138 |
| 1909 ⁶ | 225 | (NA) | 30 093 | 15 966 | 28 300 | (NA) | 14 277 | 19 883 |
| 1902 ⁷ | 265 | (NA) | 20 134 | 11 348 | 19 177 | (NA) | 10 360 | 15 056 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
|---------------------------------------|---|-----------------------------------|----------------------|-------------------------------|--|----------------------|-------------------------------|-----------------------|--------------------------------------|
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | | | | | | | | | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 38 395 | 6 319 | 11 470 | 9 126 | 168 714 | 15 575 | 1 451 | 182 | 530 |
| 1958..... | 1063 839 | (¹⁰) | 8 452 | 10 355 | 196 029 | 13 672 | 1 491 | 141 | (NA) |
| 1954..... | 1039 054 | (¹⁰) | 3 768 | 8 862 | 137 141 | 8 183 | 1 253 | 97 | 418 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963..... | ¹¹ 41 166 | 6 319 | ¹¹ 11 470 | ¹² 9 126 | 178 599 | ¹² 16 140 | ¹² 1 451 | 182 | ¹² 530 |
| 1958..... | ¹⁰ ¹¹ 66 007 | (¹⁰) | ¹¹ 8 452 | ¹² 10 381 | 209 396 | ¹² 13 698 | ¹² 1 499 | 134 | (NA) |
| 1954 ² | ¹¹ 27 562 | 13 023 | ¹¹ 3 768 | ¹² 8 920 | 145 888 | ¹² 8 256 | ¹² 1 261 | 93 | ¹² 429 |
| 1939 ³ | 7 702 | (NA) | 301 | (NA) | 41 852 | (NA) | 1 815 | 70 | 254 |
| 1929 ⁵ | 11 229 | (NA) | 95 | 1 793 | 54 666 | (NA) | ² 6 615 | 82 | 271 |
| 1919 ⁶ | 10 561 | - | 167 | (NA) | 59 866 | (NA) | ¹⁶ 6 100 | 187 | 146 |
| 1909 ⁶ | 3 566 | 128 | 774 | (NA) | 24 351 | (NA) | (NA) | (NA) | 92 |
| 1902 ⁷ | 2 045 | (NA) | 267 | (NA) | 17 368 | (NA) | (NA) | (NA) | 32 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

³Excludes data for dimension stone dressing plants operated in conjunction with quarries.

⁴Represents number of mines and quarries.

⁵Excludes data for common clay and shale and crude petroleum and natural gas extraction operations, if any. For 1939, there were 15 such clay and shale mines with products valued at \$130 thousand. No oil and gas field operations were reported for 1939.

⁶Excludes data for sand, gravel, common clay, and shale mining operations and stone quarries operated as parts of cement and lime plants. In 1929, there were 10 such sand and gravel establishments, with products valued at \$1,303 thousand, such stone quarries at 7 cement plants, with products valued at \$621 thousand, and such stone quarries at 5 lime plants. For 1919, excludes data for 2 non-producing establishments.

⁷Excludes data for sand, gravel, common clay, and shale operations. Includes data for 1 cement plant and for lime plants producing lime valued at \$236 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

¹⁰Figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electric energy.

¹¹For crushed and broken stone, sand and gravel, clay mining and for 1963, dimension stone operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for crushed and broken stone, sand and gravel, clay mining, and, for 1963, dimension stone operations in manufacturing establishments.

¹³Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 10 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 416 | 98 | 9 537 | 48 529 | 8 556 | 16 150 | 41 306 |
| | MINERAL INDUSTRIES. | 371 | 87 | 8 920 | 45 840 | 7 969 | 14 960 | 38 717 |
| | INCLUDED IN MANUFACTURES. | 45 | 11 | ¹ 617 | ¹ 2 689 | ¹ 587 | 1 190 | 2 589 |
| 10 | METAL MINING. | 32 | 10 | 970 | 5 317 | 848 | 1 784 | 4 386 |
| 12 | BITUMINOUS COAL MINING. | 197 | 43 | 5 741 | 30 716 | 5 198 | 8 876 | 26 103 |
| 1211 | BITUMINOUS COAL. | 193 | 41 | 5 665 | 30 402 | 5 126 | 8 772 | 25 800 |
| 1213 | BITUMINOUS COAL MINING SERVICES. . . | 4 | 2 | 76 | 314 | 72 | 104 | 303 |
| 13 | OIL AND GAS EXTRACTION. | 41 | 4 | 406 | 2 440 | 339 | 837 | 1 927 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 27 | 1 | 132 | 857 | 80 | 205 | 462 |
| 138 | OIL AND GAS FIELD SERVICES. | 14 | 3 | 274 | 1 583 | 259 | 532 | 1 465 |
| 1381 | DRILLING OIL AND GAS WELLS. | 8 | 3 | 244 | 1 441 | 232 | 575 | 1 342 |
| 14 | NONMETALLIC MINERALS MINING. | 146 | 41 | 2 420 | 10 056 | 2 171 | 4 653 | 8 890 |
| | MINERAL INDUSTRIES. | 101 | 30 | 1 803 | 7 367 | 1 584 | 3 463 | 6 287 |
| | INCLUDED IN MANUFACTURES. | 45 | 11 | ¹ 617 | ¹ 2 689 | ¹ 587 | 1 190 | 2 589 |
| 1421 | CRUSHED AND BROKEN STONE. | 44 | 23 | 1 222 | 5 590 | 1 117 | 2 449 | 5 041 |
| | MINERAL INDUSTRY. | 32 | 16 | 975 | 4 336 | 870 | 1 954 | 3 787 |
| | INCLUDED IN MANUFACTURES. | 12 | 7 | ¹ 247 | ¹ 1 254 | ¹ 247 | 495 | 1 254 |
| 1441 | SAND AND GRAVEL. | 60 | 12 | 658 | 2 398 | 558 | 1 195 | 2 028 |
| | MINERAL INDUSTRY. | 49 | 11 | 612 | 2 226 | 512 | 1 104 | 1 856 |
| | INCLUDED IN MANUFACTURES. | 11 | 1 | ¹ 46 | ¹ 172 | ¹ 46 | 91 | 172 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 12 | 2 | 90 | 343 | 81 | 164 | 249 |
| 1453 | FIRE CLAY (MINERAL INDUSTRY). . . | 6 | 2 | 68 | 256 | 64 | 132 | 211 |
| | CLAY AND RELATED MINERALS, N.E.C. | 23 | 1 | ¹ 96 | ¹ 316 | ¹ 96 | 183 | 316 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 126 658 | ² 68 081 | ¹ 178 599 | ³ 16 140 | 12 583 | 138 254 | |
| | MINERAL INDUSTRIES. | 118 979 | 65 310 | 168 714 | 15 575 | 11 939 | 127 055 | |
| | INCLUDED IN MANUFACTURES. | 7 679 | ² 2 771 | ¹ 9 885 | ³ 565 | ¹ 644 | 11 199 | |
| 10 | METAL MINING. | 11 467 | 4 297 | 15 300 | 464 | 2 702 | 43 133 | |
| 12 | BITUMINOUS COAL MINING. | 68 743 | 33 062 | 96 971 | 4 834 | 7 484 | 59 345 | |
| 1211 | BITUMINOUS COAL. | 67 753 | 32 542 | 95 625 | 4 670 | 7 453 | 58 799 | |
| 1213 | BITUMINOUS COAL MINING SERVICES. . . | 990 | 520 | 1 346 | 164 | 31 | 546 | |
| 13 | OIL AND GAS EXTRACTION. | 19 392 | 15 369 | 29 614 | 5 147 | 338 | 12 063 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 15 567 | 9 291 | 20 404 | 4 454 | 222 | 11 357 | |
| 138 | OIL AND GAS FIELD SERVICES. | 3 825 | 6 078 | 9 210 | 693 | 116 | 706 | |
| 1381 | DRILLING OIL AND GAS WELLS. | 3 494 | 5 414 | 8 770 | 653 | 58 | 347 | |
| 14 | NONMETALLIC MINERALS MINING. | 27 056 | ² 15 353 | ¹ 36 714 | 5 695 | 2 059 | 23 713 | |
| | MINERAL INDUSTRIES. | 19 377 | 12 582 | 26 829 | 5 130 | 1 415 | 12 514 | |
| | INCLUDED IN MANUFACTURES. | 7 679 | ² 2 771 | ¹ 19 885 | ³ 565 | ¹ 644 | 11 199 | |
| 1421 | CRUSHED AND BROKEN STONE. | 15 733 | ² 9 400 | ¹ 21 804 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY. | 11 384 | 7 994 | 16 049 | 3 329 | (NA) | (NA) | |
| | INCLUDED IN MANUFACTURES. | 4 349 | ² 1 406 | ¹ 5 755 | (NA) | (NA) | (NA) | |
| 1441 | SAND AND GRAVEL. | 6 138 | ² 2 750 | ¹ 8 012 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY. | 5 285 | 2 596 | 7 005 | 876 | 391 | 2 989 | |
| | INCLUDED IN MANUFACTURES. | 853 | ² 154 | ¹ 1 007 | (NA) | (NA) | (NA) | |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 1 172 | 1 402 | 2 048 | 526 | (NA) | (NA) | |
| 1453 | FIRE CLAY (MINERAL INDUSTRY). . . | 1 051 | 1 308 | 1 861 | 498 | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS, N.E.C. | 986 | ² 296 | ¹ 1 281 | (NA) | ¹ 123 | 3 343 | |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|--------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES | 65 310 | 38 395 | 6 319 | 11 470 | 9 126 | 15 575 | 3 791 | 11 784 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING | 4 297 | ³ 3 520 | (³) | 365 | 402 | 464 | 65 | 399 | (X) | (X) | (X) | (X) |
| 12 | BITUMINOUS COAL MINING . . . | 33 062 | ⁴ 21 396 | ⁴ 4 677 | 2 663 | 4 326 | 4 834 | 352 | 4 482 | (X) | (X) | (X) | (X) |
| 1211 | BITUMINOUS COAL. | 32 542 | ⁴ 21 083 | ⁴ 4 677 | 2 613 | 4 169 | 4 670 | 352 | 4 318 | 13 179 | 91 137 | - | - |
| 13 | OIL AND GAS EXTRACTION . . . | 15 369 | 6 979 | - | 7 481 | 909 | 5 147 | 3 311 | 1 836 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 9 291 | 2 859 | - | 6 114 | 318 | 4 454 | 3 311 | 1 143 | (X) | 20 306 | (X) | 2 360 |
| 138 | OIL AND GAS FIELD SERVICES | 6 078 | 4 120 | - | 1 367 | 591 | 693 | - | 693 | (X) | (X) | (X) | (X) |
| 1381 | DRILLING OIL AND GAS WELLS | 5 414 | 3 536 | - | 1 363 | 515 | 653 | - | 653 | (X) | ⁵ 5 237 | (X) | (⁵) |
| 14 | NONMETALLIC MINERALS MINING. | 12 582 | ³ 8 132 | (³) | 961 | 3 489 | 5 130 | 63 | 5 067 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE . | 7 994 | 3 539 | 1 562 | 585 | 2 308 | 3 329 | 20 | 3 309 | 9 843 | (D) | (D) | (D) |
| 1441 | SAND AND GRAVEL. | 2 596 | ³ 1 786 | (³) | 237 | 573 | 876 | 21 | 855 | 5 248 | ⁶ 7 562 | ⁷ 543 | (⁶) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴The cost of purchases for resale is included with the cost of coal received for preparation.

⁵Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 7.

⁷Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Non-producing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|------------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 350 | 336 | 165 | 101 | 48 | 16 | 166 | 50 | 105 | 11 | 5 | 14 |
| | NUMBER OF EMPLOYEES..... | 8 495 | 8 471 | 1 288 | 735 | 429 | 124 | 7 140 | 4 319 | 2 361 | 460 | 43 | 24 |
| | VALUE ADDED IN MINING.....\$1,000.. | 114 303 | 114 511 | 26 200 | 4 367 | 5 624 | 16 209 | 87 151 | 56 629 | 26 778 | 3 744 | 1 160 | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 31 | 11 | - | 11 | - | 19 | 1 | 18 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 950 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 467 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | (D) | (D) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 193 | 193 | 124 | 101 | 22 | 1 | 66 | 49 | 14 | 3 | 3 | - |
| | NUMBER OF EMPLOYEES..... | 5 648 | 5 648 | 1 025 | 735 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 67 753 | 67 753 | 8 565 | 4 367 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 193 | 193 | 124 | 101 | 22 | 1 | 66 | 49 | 14 | 3 | 3 | - |
| | NUMBER OF EMPLOYEES..... | 5 648 | 5 648 | 1 025 | 735 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 67 753 | 67 753 | 8 565 | 4 367 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 27 | 14 | 14 | - | - | 14 | - | - | - | - | - | 13 |
| | NUMBER OF EMPLOYEES..... | 123 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 15 927 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 27 | 14 | 14 | - | - | 14 | - | - | - | - | - | 13 |
| | NUMBER OF EMPLOYEES..... | 123 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 15 927 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 32 | - | - | - | - | 31 | - | 31 | - | 1 | - |
| | NUMBER OF EMPLOYEES..... | 975 | 975 | - | - | - | - | (D) | - | (D) | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 384 | 11 384 | - | - | - | - | (D) | - | (D) | - | (D) | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 49 | 49 | 10 | - | 9 | 1 | 39 | - | 31 | 8 | - | - |
| | NUMBER OF EMPLOYEES..... | 602 | 602 | 58 | - | (D) | (D) | 544 | - | (D) | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 285 | 5 285 | 533 | - | (D) | (D) | 4 752 | - | (D) | (D) | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 10 | ALL MINERAL OPERATIONS | 416 | 98 | 9 537 | 48 529 | 8 556 | 16 150 | 41 306 | 126 658 | 68 081 | 178 599 | 16 140 | 12 583 | 138 254 |
| | MINERAL INDUSTRIES | 371 | 87 | 8 920 | 45 840 | 7 969 | 14 960 | 38 717 | 118 979 | 65 310 | 168 714 | 15 575 | 11 939 | 127 005 |
| | INCLUDED IN MANUFACTURES ² | 45 | 11 | 617 | 2 689 | 587 | 587 | 2 589 | 7 679 | 2 771 | 9 885 | 565 | 644 | 11 199 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BARBOUR COUNTY, TOTAL | 4 | - | 40 | 161 | 31 | 55 | 122 | 390 | 454 | 768 | 76 | 55 | 303 |
| 101 | METAL MINING | 4 | - | 39 | 159 | 30 | 54 | 120 | 387 | 453 | 764 | 76 | (NA) | (NA) |
| | BIBB COUNTY, TOTAL | 8 | 1 | 48 | 169 | 37 | 58 | 119 | 336 | 419 | 688 | 67 | 89 | 264 |
| | BUTLER COUNTY, TOTAL | 6 | 4 | 170 | 691 | 154 | 384 | 573 | 1 516 | 978 | 2 378 | 116 | (NA) | (NA) |
| | METAL MINING | 6 | 4 | 170 | 691 | 154 | 384 | 573 | 1 516 | 978 | 2 378 | 116 | 71 | 917 |
| | IRON ORES | 6 | 4 | 170 | 691 | 154 | 384 | 573 | 1 516 | 978 | 2 378 | 116 | (NA) | (NA) |
| 131 | CHOCTAW COUNTY, TOTAL | 14 | - | 30 | 96 | 26 | 45 | 85 | 503 | 678 | 870 | 311 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 14 | - | 30 | 96 | 26 | 45 | 85 | 503 | 678 | 870 | 311 | 17 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 7 | - | 6 | 19 | 2 | 4 | 10 | 269 | 525 | 505 | 289 | (NA) | (NA) |
| | CRENSHAW COUNTY, TOTAL | 4 | - | 36 | 134 | 34 | 67 | 125 | 388 | 243 | 586 | 45 | (NA) | (NA) |
| | ESCAMBIA COUNTY, TOTAL | 16 | 2 | 99 | 312 | 88 | 164 | 270 | 1 506 | 680 | 1 943 | 243 | 39 | (NA) |
| 1314144 | OIL AND GAS EXTRACTION | 12 | - | 16 | 92 | 16 | 33 | 87 | 1 110 | 336 | 1 377 | 69 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 4 | - | 7 | 46 | 7 | 14 | 46 | 1 023 | 283 | 1 251 | 55 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 4 | 2 | 83 | 220 | 72 | 131 | 183 | 396 | 344 | 566 | 174 | (NA) | (NA) |
| | SAND AND GRAVEL | 4 | 2 | 83 | 220 | 72 | 131 | 183 | 396 | 344 | 566 | 174 | (NA) | (NA) |
| | ETOWAH COUNTY, TOTAL | 8 | 2 | 96 | 276 | 89 | 140 | 249 | 704 | 511 | 1 043 | 172 | (NA) | (NA) |
| 12 | FRANKLIN COUNTY, TOTAL | 6 | 2 | 134 | 579 | 121 | 235 | 528 | 1 032 | 348 | 1 329 | 51 | (NA) | (NA) |
| | JEFFERSON COUNTY, TOTAL | 89 | 19 | 4 191 | 24 572 | 3 722 | 6 720 | 20 031 | 49 348 | 19 797 | 65 899 | 3 246 | 7 628 | 78 090 |
| | BITUMINOUS COAL MINING | 76 | 14 | 3 522 | 20 137 | 3 164 | 5 499 | 16 552 | 40 555 | 16 892 | 54 671 | 2 776 | 5 092 | 37 179 |
| | MADISON COUNTY, TOTAL | 3 | 1 | 42 | 278 | 40 | 115 | 263 | 973 | 3 173 | 3 455 | 691 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 3 | 1 | 42 | 278 | 40 | 115 | 263 | 973 | 3 173 | 3 455 | 691 | (NA) | (NA) |
| 1211 | CRUSHED AND BROKEN STONE | 3 | 1 | 42 | 278 | 40 | 115 | 263 | 973 | 3 173 | 3 455 | 691 | (NA) | (NA) |
| | MARION COUNTY, TOTAL | 36 | 6 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | BITUMINOUS COAL | 34 | 6 | 335 | 1 198 | 297 | 469 | 1 090 | 2 180 | 804 | 2 752 | 232 | (NA) | (NA) |
| | MOBILE COUNTY, TOTAL | 42 | 4 | 400 | 2 362 | 328 | 841 | 1 799 | 18 722 | 13 577 | 28 510 | 3 789 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 37 | 3 | 339 | 2 112 | 287 | 756 | 1 647 | 18 257 | 13 358 | 27 918 | 3 697 | 234 | (NA) |
| 1313814 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | 1 | 79 | 536 | 45 | 129 | 219 | 14 149 | 6 966 | 18 140 | 2 975 | 120 | (NA) |
| | OIL AND GAS FIELD SERVICES | 22 | 2 | 260 | 1 576 | 242 | 627 | 1 428 | 4 108 | 6 392 | 9 778 | 722 | 114 | (NA) |
| | NONMETALLIC MINERALS MINING | 5 | 1 | 52 | 187 | 41 | 85 | 152 | 465 | 219 | 592 | 92 | (NA) | (NA) |
| | MORGAN COUNTY, TOTAL | 3 | 2 | 72 | 239 | 53 | 118 | 188 | 408 | 209 | 602 | 15 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 3 | 2 | 72 | 239 | 53 | 118 | 188 | 408 | 209 | 602 | 15 | (NA) | (NA) |
| 10101 | PIKE COUNTY, TOTAL | 5 | 1 | 87 | 289 | 78 | 164 | 250 | 931 | 286 | 1 186 | 31 | (NA) | (NA) |
| | METAL MINING | 5 | 1 | 87 | 289 | 78 | 164 | 250 | 931 | 286 | 1 186 | 31 | (NA) | (NA) |
| | IRON ORES | 5 | 1 | 87 | 289 | 78 | 164 | 250 | 931 | 286 | 1 186 | 31 | 104 | 1 351 |
| | SHELBY COUNTY, TOTAL | 22 | 6 | 560 | 2 522 | 494 | 981 | 2 114 | 7 113 | 1 975 | 8 336 | 752 | 314 | 1 895 |
| | NONMETALLIC MINERALS MINING | 7 | 3 | 239 | 905 | 205 | 446 | 740 | 2 898 | 905 | 3 335 | 468 | 164 | 1 529 |
| 121211 | TALLADEGA COUNTY, TOTAL | 7 | 4 | 383 | 1 788 | 361 | 783 | 1 646 | 4 685 | 2 190 | 5 063 | 1 812 | (NA) | (NA) |
| | TUSCALOOSA COUNTY, TOTAL | 13 | 4 | 175 | 778 | 167 | 268 | 747 | 2 206 | 654 | 2 681 | 179 | 280 | 3 652 |
| | BITUMINOUS COAL MINING | 9 | 3 | 119 | 521 | 114 | 170 | 498 | 1 415 | 453 | 1 750 | 118 | 220 | 2 598 |
| | BITUMINOUS COAL | 9 | 3 | 119 | 521 | 114 | 170 | 498 | 1 415 | 453 | 1 750 | 118 | (NA) | (NA) |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | WALKER COUNTY, TOTAL | 50 | 12 | 1 323 | 6 864 | 1 229 | 2 101 | 6 352 | 21 567 | 10 922 | 31 266 | 1 223 | 1 424 | 16 187 |
| 12 | BITUMINOUS COAL MINING | 50 | 12 | 1 321 | 6 862 | 1 229 | 2 101 | 6 352 | 21 567 | 10 922 | 31 266 | 1 223 | 1 355 | 15 838 |
| 1211 | BITUMINOUS COAL, | 44 | 11 | 1 259 | 6 586 | 1 170 | 2 016 | 6 089 | 20 664 | 10 428 | 30 026 | 1 066 | (NA) | (NA) |
| 1213 | COAL MINING SERVICES, NEC. | 6 | 1 | 62 | 276 | 59 | 85 | 263 | 903 | 494 | 1 240 | 157 | (NA) | (NA) |
| | WASHINGTON COUNTY, TOTAL | 5 | - | 16 | 68 | 8 | 17 | 29 | 445 | 122 | 543 | 24 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 14 | - | 39 | 182 | 32 | 64 | 156 | 397 | 120 | 480 | 37 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 14 | - | 39 | 182 | 32 | 64 | 156 | 397 | 120 | 480 | 37 | 122 | (NA) |

Note: For 1963 county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111C Anthracite mining services | 141MDimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in man- u- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| ALABAMA, TOTAL | 416 | 371 | 45 | 28 | - | - | - | 4 | - | - | - | - | - | 193 | 4 | 27 | - | 14 | - | 3 | 32 | 12 | 49 | 11 | 12 | 3 | 19 | - | 3 | 5 |
| NO EMPLOYEES | 55 | 55 | - | 3 | - | - | - | - | - | - | - | - | - | 34 | - | 10 | - | 1 | - | - | - | - | 4 | - | 3 | - | - | - | - | - |
| 1-4 EMPLOYEES | 120 | 99 | 21 | 3 | - | - | - | - | - | - | - | - | - | 55 | 1 | 10 | - | 6 | - | - | 7 | 1 | 12 | 8 | 2 | 12 | - | 2 | 1 | - |
| 5-9 EMPLOYEES | 69 | 59 | 10 | 4 | - | - | - | 2 | - | - | - | - | - | 30 | - | 5 | - | 5 | - | 1 | 3 | 2 | 8 | 2 | 2 | 5 | - | - | - | - |
| 10-19 EMPLOYEES | 75 | 72 | 3 | 8 | - | - | - | 2 | - | - | - | - | - | 33 | 1 | 1 | - | - | - | - | 6 | 2 | 14 | - | 3 | 1 | - | 1 | 3 | - |
| 20-49 EMPLOYEES | 64 | 56 | 8 | 7 | - | - | - | - | - | - | - | - | - | 22 | 2 | - | - | 1 | - | - | 11 | 6 | 11 | 1 | 2 | 1 | - | - | - | - |
| 50-99 EMPLOYEES | 17 | 16 | 1 | 2 | - | - | - | - | - | - | - | - | - | 8 | - | 1 | - | - | - | - | 4 | 1 | - | - | - | - | - | - | - | 1 |
| 100-249 EMPLOYEES | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | 1 | - | 2 | 1 | - | - | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 7 | 7 | - | 1 | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 500-999 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AUTAUGA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BALDWIN COUNTY, TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | 1 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | 1 | - | - | 1 | - | - | - | - |
| BARBOUR COUNTY, TOTAL | 5 | 4 | 1 | 1 | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | 1 | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| BIBB COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BLOUNT COUNTY, TOTAL | 5 | 4 | 1 | 1 | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BUTLER COUNTY, TOTAL | 6 | 6 | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CALHOUN COUNTY, TOTAL | 9 | 7 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 3 | 1 | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 8 | 6 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | 1 | - | - | - | 1 |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| CHEROKEE COUNTY, TOTAL | 3 | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - |
| CHILTON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| CHOCTAW COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| CLARKE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| CLAY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| CLEBURNE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| COLBERT COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | 1 |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| CONECUH COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| COOSA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| COVINGTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| CRENSHAW COUNTY, TOTAL | 4 | 4 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| CULLMAN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| DALE COUNTY, TOTAL | 1 | 1 | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

| | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|--|-----------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| State, county, and size class | Total | Classified in mineral industries ¹ | In-cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| ETOWAH COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | 3 | - | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| FAYETTE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FRANKLIN COUNTY, TOTAL | 7 | 6 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| GENEVA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| GREENE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| HENRY COUNTY, TOTAL | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HOUSTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| JACKSON COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY, TOTAL | 100 | 89 | 11 | 2 | - | - | - | - | - | - | - | - | - | 75 | 1 | - | - | - | - | - | 5 | 5 | 3 | 1 | 2 | 5 | - | 1 | - | - |
| 0-19 EMPLOYEES | 78 | 70 | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| TALLADEGA COUNTY: TOTAL | 8 | 7 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 4 | - | - | - | - | - | - | 1 | 1 | - |
| 0-19 EMPLOYEES | 3 | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| TUSCALOOSA COUNTY: TOTAL | 14 | 13 | 1 | 2 | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 9 | 1 | 1 | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | 1 | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WALKER COUNTY: TOTAL | 51 | 50 | 1 | - | - | - | - | - | - | - | - | - | - | 44 | 6 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 38 | 1 | - | - | - | - | - | - | - | - | - | - | 33 | 5 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 9 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WILCOX COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WINSTON COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OFFSHORE: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING: 1963

ALASKA

RANK AMONG STATES

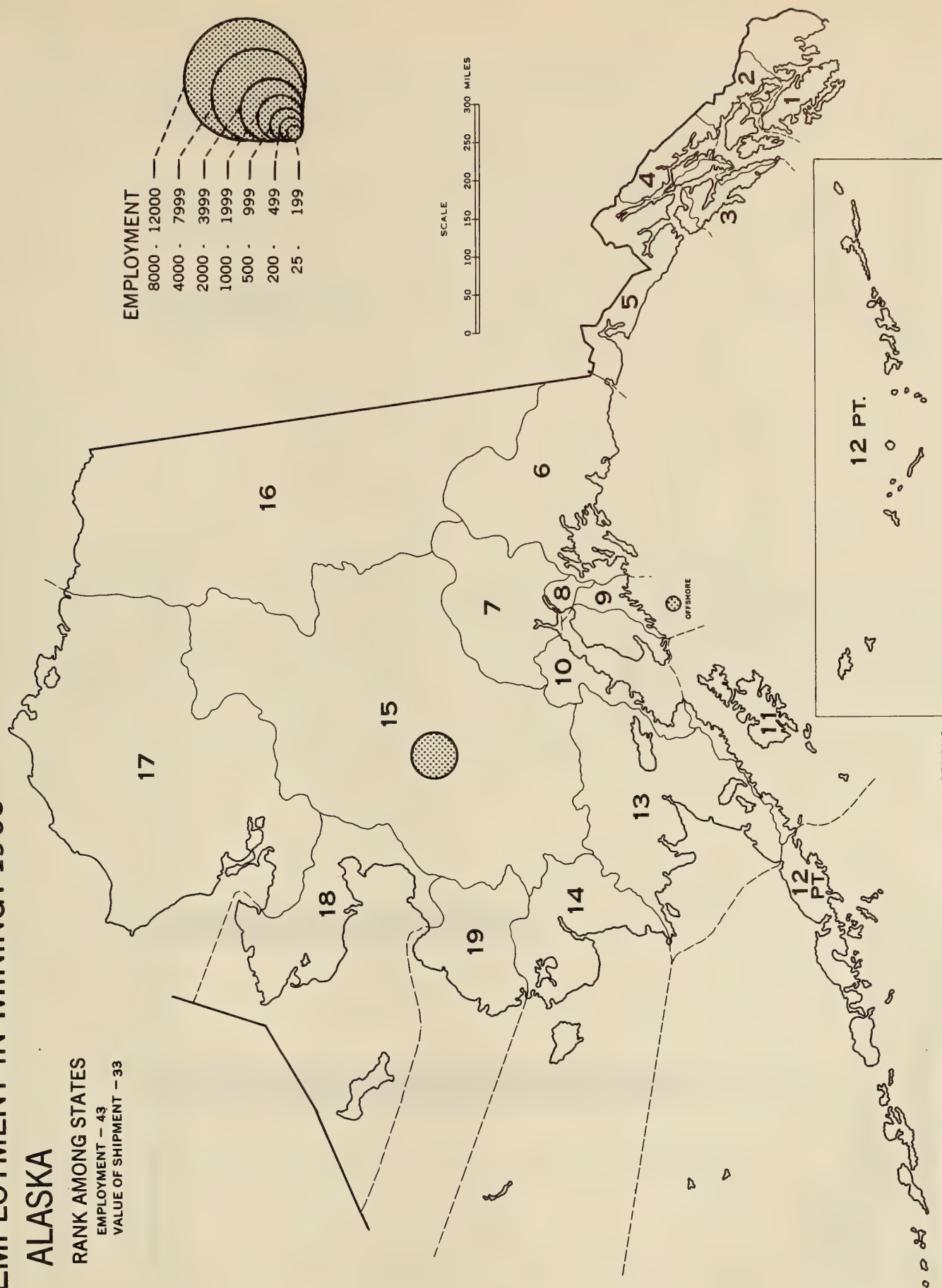
EMPLOYMENT - 43

VALUE OF SHIPMENT - 33

EMPLOYMENT

| |
|--------------|
| 8000 - 12000 |
| 4000 - 7999 |
| 2000 - 3999 |
| 1000 - 1999 |
| 500 - 999 |
| 200 - 499 |
| 25 - 199 |

SCALE



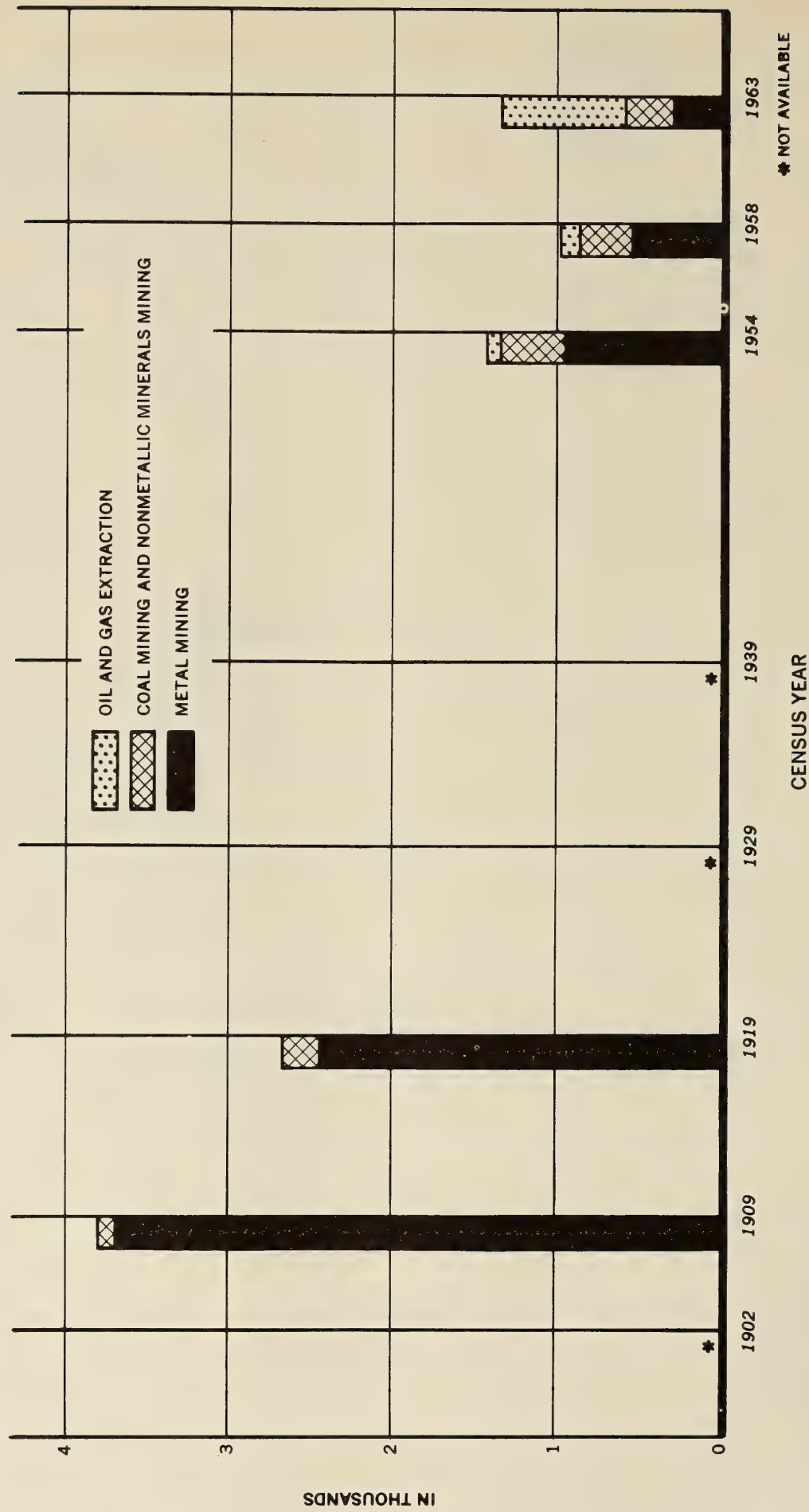
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

ALASKA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|---------------------------------------|--|--|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 138 | 18 | 1 328 | 12 061 | 1 137 | 2 431 | 9 748 | 52 616 | |
| 1958. | 156 | 11 | 976 | 7 549 | 804 | 2 027 | 5 632 | 8 820 | |
| | | | | | | | | | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963. | 141 | 18 | 1 356 | 12 198 | 1 165 | 2 486 | 9 885 | 52 919 | |
| 1958. | 160 | 9 | 988 | 7 642 | 816 | 2 047 | 5 725 | 9 214 | |
| 1954 ¹ | 194 | 14 | 1 436 | 9 529 | 1 197 | 2 990 | 7 663 | 14 383 | |
| 1919 ² | 346 | (NA) | 2 674 | 5 544 | 2 475 | (NA) | 5 011 | 11 307 | |
| 1909 ² | 3673 | (NA) | 3 807 | 6 820 | 3 588 | (NA) | 6 411 | 12 385 | |
| | | | | | | | | | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁴ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 11 052 | - | 30 144 | 2 496 | 62 407 | 33 901 | 645 | 567 | |
| 1958. | 4 423 | 500 | 7 120 | 1 674 | 16 922 | 5 615 | 652 | 811 | |
| | | | | | | | | | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963. | 511 128 | - | 530 144 | 62 496 | 62 786 | 633 901 | 645 | 567 | |
| 1958. | 54 453 | 500 | 57 120 | 1 674 | 17 346 | 15 615 | 1652 | 799 | |
| 1954 ¹ | 4 890 | 121 | 1 651 | 3 305 | 19 753 | 4 597 | 677 | 566 | |
| 1919 ² | 3 870 | - | 458 | (NA) | 15 635 | (NA) | 7491 | 198 | |
| 1909 ² | 2 903 | - | 1 645 | (NA) | 16 933 | (NA) | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²For 1919 and 1909, the Census reports indicated that coverage was incomplete, amounting to approximately 80 percent of the estimated total value of mineral products. For 1919, also excludes nonproducing operations; 6 such operations were reported for that year with 90 production, development, and exploration workers and

expenditures for development amounting to \$350 thousand.

³Represents number of operating companies.

⁴Represents the gross value of shipments and receipts and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation.

⁵For sand and gravel and for 1963, crushed and broken stone mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resales, and purchased fuels and electric energy.

⁶Excludes data for crushed and broken stone and sand and gravel mining operations in manufacturing establishments.

⁷Excludes purchased electric energy. For 1954, the quantity of purchased electric energy amounted to less than one percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 141 | 18 | 1 356 | 12 198 | 1 165 | 2 486 | 9 885 |
| | MINERAL INDUSTRIES. | 138 | 18 | 1 328 | 12 061 | 1 137 | 2 431 | 9 748 |
| | INCLUDED IN MANUFACTURES. | 3 | - | 128 | 137 | 128 | 55 | 137 |
| 10 | METAL MINING. | 85 | 2 | 297 | 2 023 | 250 | 555 | 1 588 |
| 12 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 10 | 3 | 194 | 2 226 | 171 | 445 | 1 913 |
| 13 | OIL AND GAS EXTRACTION. | 30 | 13 | 766 | 7 426 | 651 | 1 301 | 5 888 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 17 | 4 | 257 | 3 151 | 179 | 334 | 1 994 |
| 138 | OIL AND GAS FIELD SERVICES. | 13 | 9 | 509 | 4 275 | 472 | 967 | 3 894 |
| 14 | NONMETALLIC MINERALS MINING | 16 | - | 199 | 1523 | 193 | 185 | 496 |
| | MINERAL INDUSTRIES. | 13 | - | 71 | 386 | 65 | 130 | 359 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS. | 52 919 | 243 768 | 162 786 | (NA) | 988 | 9 214 |
| | MINERAL INDUSTRIES. | 52 616 | 43 692 | 62 407 | 33 901 | 976 | 8 820 |
| | INCLUDED IN MANUFACTURES. | 303 | 276 | 1379 | (NA) | 112 | 394 |
| 10 | METAL MINING. | 5 197 | 1 892 | 6 412 | 677 | 548 | 5 448 |
| 12 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 5 009 | 1 791 | 5 894 | 906 | 257 | 5 780 |
| 13 | OIL AND GAS EXTRACTION. | 41 404 | 39 636 | 48 841 | 32 199 | 116 | (3) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 29 959 | 39 636 | 48 841 | 30 845 | 81 | (D) |
| 138 | OIL AND GAS FIELD SERVICES. | 11 449 | | | 1 354 | 35 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 1 330 | 2449 | 1 660 | 119 | 167 | 782 |
| | MINERAL INDUSTRIES. | 1 027 | 373 | 1 281 | 119 | 55 | 388 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

³Not shown since the cost of supplies, purchases for resale, minerals received for preparation, purchased fuels and electric energy, contract work, and purchased machinery installed exceeds the sum of value of shipments and receipts and capital expenditures.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity - (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 43 692 | 11 052 | - | 30 144 | 2 496 | 33 901 | 29 278 | 4 623 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 1 892 | 1 474 | - | 295 | 123 | 677 | 497 | 180 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 1 791 | 1 153 | - | 71 | 567 | 906 | 271 | 635 | 856 | 5 894 | - | - |
| 13 | OIL AND GAS EXTRACTION. . . . | 39 636 | 8 282 | - | 29 695 | 1 659 | 32 199 | 28 506 | 3 693 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | (D) | (D) | - | 29 081 | 708 | 30 845 | 28 504 | 2 341 | (x) | (D) | (x) | (D) |
| 1381 | OIL AND GAS FIELD SERVICES. | (D) | (D) | - | 614 | 951 | 1 354 | 2 | 1 352 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 10 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 125 | 86 | 29 | - | 24 | 5 | 57 | 2 | 53 | 2 | - | 39 |
| | NUMBER OF EMPLOYEES..... | 809 | 636 | 178 | - | (D) | (D) | 458 | (D) | 422 | (D) | - | 173 |
| | VALUE ADDED IN MINING.....\$1,000.. | 41 202 | 41 416 | 30 648 | - | (D) | (D) | 10 685 | (D) | 9 302 | (D) | - | (²) |
| | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 85 | 60 | 16 | - | 16 | - | 44 | 2 | 41 | 1 | - | 25 |
| | NUMBER OF EMPLOYEES..... | 297 | (D) | (D) | - | (D) | - | 229 | (D) | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 197 | (D) | (D) | - | (D) | - | 5 050 | (D) | (D) | (D) | - | (D) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 10 | 8 | 4 | - | 4 | - | 4 | - | 4 | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | 194 | (D) | (D) | - | (D) | - | 180 | - | 180 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 009 | (D) | (D) | - | (D) | - | 4 907 | - | 4 907 | - | - | (D) |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 10 | 8 | 4 | - | 4 | - | 4 | - | 4 | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | 194 | (D) | (D) | - | (D) | - | 180 | - | 180 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 009 | (D) | (D) | - | (D) | - | 4 907 | - | 4 907 | - | - | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 17 | 5 | 5 | - | - | 5 | - | - | - | - | - | 12 |
| | NUMBER OF EMPLOYEES..... | 247 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 29 959 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 17 | 5 | 5 | - | - | 5 | - | - | - | - | - | 12 |
| | NUMBER OF EMPLOYEES..... | 247 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 29 959 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958**

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 13 | ALL MINERAL OPERATIONS | 141 | 18 | 1 356 | 12 198 | 1 165 | 2 486 | 9 885 | 52 919 | 43 768 | 62 786 | (NA) | 988 | 9 214 |
| | MINERAL INDUSTRIES | 138 | 18 | 1 328 | 12 061 | 1 137 | 2 431 | 9 748 | 52 616 | 43 692 | 62 407 | 33 901 | 976 | 8 820 |
| | INCLUDED IN MANUFACTURES ² | 3 | - | 28 | 137 | 28 | 55 | 137 | 303 | 76 | 379 | (NA) | 12 | 394 |
| | OFFSHORE, TOTAL ³ | 7 | 1 | 55 | 518 | 50 | 117 | 473 | 4 729 | 6 086 | 6 726 | 4 089 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 7 | 1 | 55 | 518 | 50 | 117 | 473 | 4 729 | 6 086 | 6 726 | 4 089 | (NA) | (NA) |

Note: For 1963, district industry detail for total employment and payroll may not add to district totals, because of the inclusion of central administrative employees and payroll in the district total but not in the district industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and district. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a district represent the number of reports that indicate any operations in the specified district. All district statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported district data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

**TABLE 4. Distribution of Mineral Operations by Employment Size Class and by
Industry Groups, for Counties: 1963**

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services

109 Miscellaneous metal ores
110 Anthracite
111 Anthracite mining services
120 Bituminous coal and lignite
12C Coal mining services
131 Crude petroleum and natural gas
132 Natural gas liquids

138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures

145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| ALASKA, TOTAL | 141 | 138 | 3 | 1 | 3 | - | 76 | - | - | - | 5 | - | - | 10 | - | 17 | - | 13 | - | - | - | 1 | 12 | 2 | - | - | - | - | - | 1 |
| NO EMPLOYEES | 48 | 48 | - | 1 | 1 | - | 38 | - | - | - | 1 | - | - | 3 | - | 1 | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 1-4 EMPLOYEES | 44 | 43 | 1 | - | - | - | 27 | - | - | - | 1 | - | - | 2 | - | 5 | - | 2 | - | - | - | 1 | 5 | - | - | - | - | - | 1 | - |
| 5-9 EMPLOYEES | 15 | 14 | 1 | - | - | - | 7 | - | - | - | 1 | - | - | 2 | - | 3 | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| 10-19 EMPLOYEES | 16 | 15 | 1 | - | 2 | - | 3 | - | - | - | 1 | - | - | - | - | 4 | - | 1 | - | - | - | - | 4 | 1 | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 3 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 50-99 EMPLOYEES | 4 | 4 | - | - | - | - | 1 | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| OFFSHORE, TOTAL | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | - | - | - | 1 | - | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 6 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | 1 | - | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 5 | 5 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

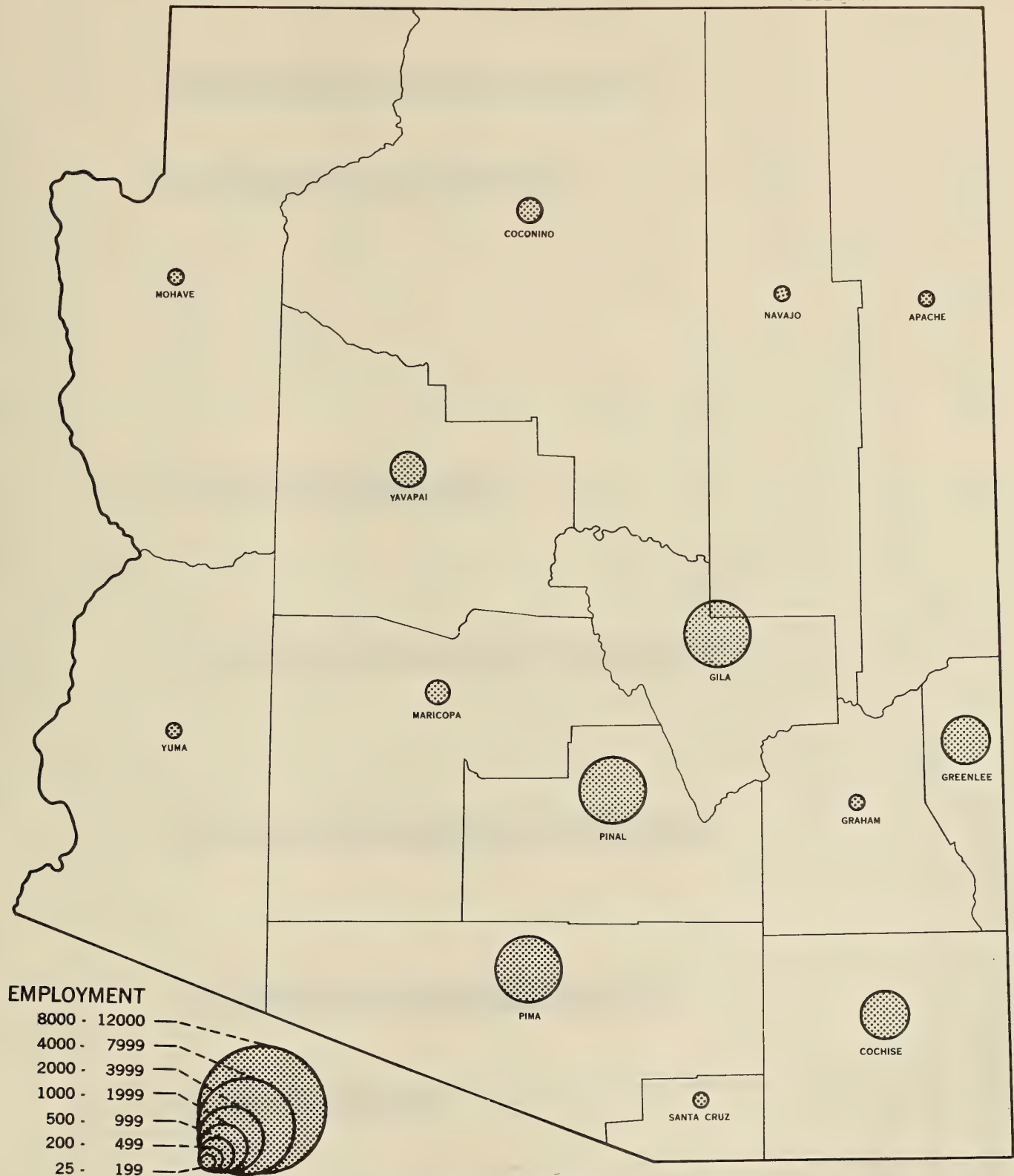
EMPLOYMENT IN MINING BY COUNTY: 1963

ARIZONA

RANK AMONG STATES

EMPLOYMENT - 12

VALUE OF SHIPMENT - 14



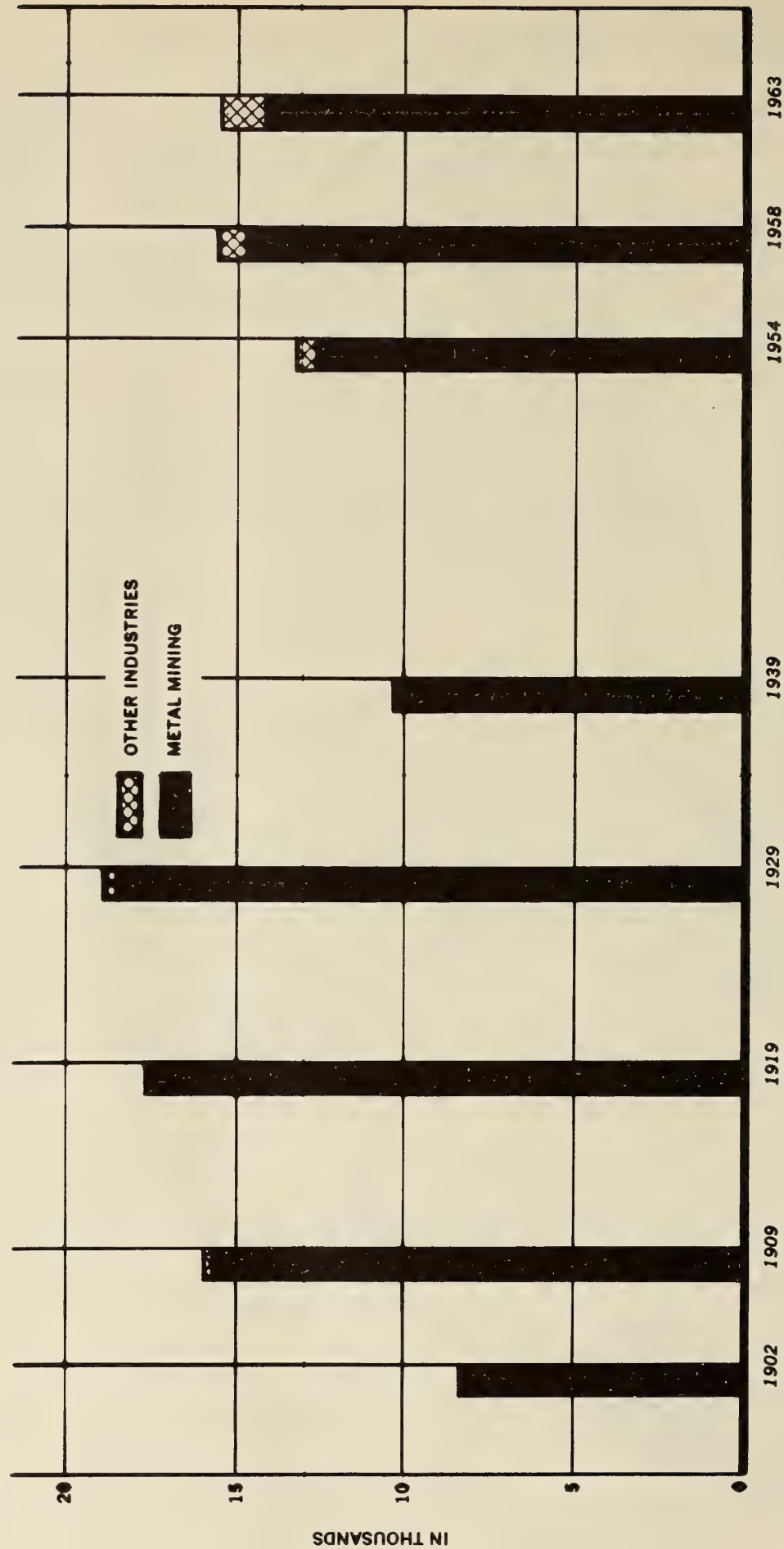
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

ARIZONA



DEPARTMENT OF COMMERCE

CENSUS YEAR

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|---------------------------------------|---|-----------------------------------|---------------------|-------------------------------|--|----------------------|-------------------------------|-----------------------|--------------------------------------|
| | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | |
| | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 260 | 39 | 15 180 | 107 397 | 12 789 | 28 672 | 88 818 | 287 366 | |
| 1958..... | 320 | 40 | 15 283 | 79 872 | 12 136 | 24 540 | 61 656 | 189 015 | |
| 1954..... | 525 | 36 | 13 231 | 66 584 | 11 014 | 25 169 | 53 889 | ¹ 178 139 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963..... | 290 | 41 | 15 525 | 109 006 | 13 126 | 29 353 | 90 399 | 295 733 | |
| 1958..... | 338 | 43 | 15 609 | 81 473 | 12 462 | 25 189 | 63 257 | 195 533 | |
| 1954 ² | 533 | 37 | 13 290 | 66 776 | 11 073 | 25 286 | 54 081 | ¹ 179 001 | |
| 1939 ³ | ⁴ 179 | (NA) | 10 389 | 17 066 | 9 400 | 22 059 | 14 561 | 40 560 | |
| 1929 ⁵ | 236 | (NA) | 18 875 | 33 514 | 17 274 | (NA) | 29 209 | 91 513 | |
| 1919 ⁶ | 250 | (NA) | 17 673 | 30 454 | 16 066 | (NA) | 27 421 | 64 591 | |
| 1909 ⁶ | 445 | (NA) | 16 014 | 17 442 | 15 146 | (NA) | 15 970 | 19 531 | |
| 1902 ⁶ | ⁴ 494 | (NA) | 8 400 | 8 559 | ⁷ 7 569 | (NA) | 7 389 | 6 855 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 84 606 | 25 603 | 17 892 | 13 078 | 385 945 | 42 600 | 3 940 | 308 | 1 183 |
| 1958..... | 57 951 | 7 973 | 18 412 | 6 012 | 249 442 | 29 921 | 4 579 | 377 | (NA) |
| 1954..... | 48 515 | 1 078 | 30 428 | 9 154 | ¹ 217 936 | 47 867 | 3 747 | 340 | 889 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963..... | ⁹ 85 868 | 25 603 | ⁹ 17 898 | ¹⁰ 13 098 | 395 579 | ¹⁰ 42 621 | ¹⁰ 3 940 | 308 | ¹⁰ 1 183 |
| 1958..... | ⁹ 59 168 | 7 973 | ⁹ 18 412 | ¹⁰ 6 012 | 257 177 | ¹⁰ 29 921 | ¹⁰ 4 579 | 367 | (NA) |
| 1954 ² | ⁹ 48 748 | 1 078 | ⁹ 30 428 | ¹⁰ 9 154 | ¹ 219 031 | ¹⁰ 47 867 | ¹⁰ 3 747 | 338 | ¹⁰ 889 |
| 1939 ³ | 13 540 | (NA) | 130 | (NA) | 54 230 | (NA) | 2 372 | 252 | 282 |
| 1929 ⁵ | 23 709 | (NA) | 1 256 | 7 404 | 116 478 | (NA) | 3 735 | 216 | 214 |
| 1919 ⁶ | 21 392 | 1 528 | 967 | (NA) | 88 478 | (NA) | ¹¹ 2 912 | 181 | 175 |
| 1909 ⁶ | 12 907 | 1 370 | 410 | (NA) | 34 218 | (NA) | (NA) | (NA) | 56 |
| 1902 ⁶ | 3 985 | (NA) | 357 | (NA) | 11 197 | (NA) | (NA) | (NA) | 11 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operation in manufacturing establishments.

³Excludes data for dimension stone dressing plants, if any, operated in conjunction with 3 dimension stone quarries.

⁴Represents number of mines and quarries.

⁵Excludes data for establishments in the Oil and Gas Extraction Industries, if any.

⁶Excludes data for sand and gravel mining establishments and, except for 1902, for stone quarries operated as parts of cement and lime plants. In 1929, there were 3 such sand and gravel establishments with products valued at \$82 thousand, and 2 such stone quarries.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, the figures represent net production and exclude this duplication.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 4 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS..... | 290 | 41 | 15 525 | 109 006 | 13 126 | 29 353 | 90 399 |
| | MINERAL INDUSTRIES..... | 260 | 39 | 15 180 | 107 397 | 12 789 | 28 672 | 88 818 |
| | INCLUDED IN MANUFACTURES..... | 30 | 2 | 345 | 1 609 | 337 | 681 | 1 581 |
| 10 | METAL MINING..... | 151 | 29 | 14 201 | 103 066 | 11 944 | 27 044 | 85 228 |
| 1021 | COPPER ORES..... | 65 | 19 | 12 507 | 92 316 | 10 451 | 23 893 | 76 140 |
| 1031 | LEAD AND ZINC ORES..... | 18 | 1 | 69 | 410 | 65 | 104 | 399 |
| 1081 | METAL MINING SERVICES..... | 8 | 3 | 1 029 | 6 882 | 918 | 1 953 | 5 936 |
| 13 | OIL AND GAS EXTRACTION..... | 19 | - | 43 | 158 | 34 | 64 | 127 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS..... | 15 | - | 15 | 69 | 10 | 14 | 49 |
| | CRUDE PETROLEUM..... | 11 | - | 11 | 53 | 8 | 10 | 38 |
| 14 | NONMETALLIC MINERALS MINING..... | 115 | 12 | 1 274 | 5 748 | 1 141 | 2 233 | 5 010 |
| | MINERAL INDUSTRIES..... | 85 | 10 | 929 | 4 139 | 804 | 1 552 | 3 429 |
| | INCLUDED IN MANUFACTURES..... | 30 | 2 | 345 | 1 609 | 337 | 681 | 1 581 |
| 1411 | DIMENSION STONE (DIMENSION STONE, N.E.C. SUBINDUSTRY)..... | 9 | - | 75 | 206 | 64 | 103 | 177 |
| 1421 | CRUSHED AND BROKEN STONE..... | 26 | 1 | 180 | 923 | 170 | 318 | 869 |
| | MINERAL INDUSTRY..... | 20 | 1 | 118 | 587 | 108 | 194 | 533 |
| | INCLUDED IN MANUFACTURES..... | 6 | - | 62 | 336 | 62 | 124 | 336 |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY: | | | | | | | |
| | MINERAL SUBINDUSTRY..... | 14 | 1 | 78 | 398 | 71 | 115 | 350 |
| 1441 | SAND AND GRAVEL..... | 48 | 9 | 819 | 3 836 | 730 | 1 449 | 3 299 |
| | MINERAL INDUSTRY..... | 37 | 7 | 594 | 2 787 | 505 | 989 | 2 250 |
| | INCLUDED IN MANUFACTURES..... | 11 | 2 | 225 | 1 049 | 225 | 460 | 1 049 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES..... | 22 | 2 | 155 | 605 | 134 | 284 | 494 |
| 1495 | PUMICE AND PUMICITE..... | 8 | - | 37 | 166 | 34 | 67 | 157 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|---|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS..... | 295 733 | 2142 467 | 1395 579 | 342 621 | 15 609 | 195 533 |
| | MINERAL INDUSTRIES..... | 287 366 | 141 179 | 385 945 | 42 600 | 15 283 | 189 015 |
| | INCLUDED IN MANUFACTURES..... | 8 367 | 21 288 | 9 634 | 21 | 1326 | 6 518 |
| 10 | METAL MINING..... | 277 149 | 135 878 | 373 010 | 40 017 | 14 682 | 185 566 |
| 1021 | COPPER ORES..... | 257 765 | 123 186 | 345 066 | 35 885 | 13 072 | 165 569 |
| 1031 | LEAD AND ZINC ORES..... | (4) | 578 | 340 | 210 | 416 | 4 077 |
| 1081 | METAL MINING SERVICES..... | 12 210 | 5 640 | 15 578 | 2 272 | 278 | 3 789 |
| 13 | OIL AND GAS EXTRACTION..... | 420 | 1 412 | 593 | 1 239 | (NA) | (NA) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS..... | 258 | 1 342 | 375 | 1 225 | (NA) | (NA) |
| | CRUDE PETROLEUM..... | 11 | 1 193 | 73 | 1 131 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING..... | 18 128 | 25 130 | 121 930 | 31 328 | 861 | 10 926 |
| | MINERAL INDUSTRIES..... | 9 761 | 3 842 | 12 296 | 1 307 | 535 | 4 408 |
| | INCLUDED IN MANUFACTURES..... | 8 367 | 21 288 | 9 634 | 21 | 1326 | 6 518 |
| 1411 | DIMENSION STONE (DIMENSION STONE, N.E.C. SUBINDUSTRY)..... | 351 | 239 | 555 | 35 | (NA) | (NA) |
| 1421 | CRUSHED AND BROKEN STONE..... | 3 357 | 1 145 | 4 178 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY..... | 1 424 | 745 | 1 845 | 324 | 58 | 519 |
| | INCLUDED IN MANUFACTURES..... | 1 933 | 2 400 | 12 333 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY: | | | | | | |
| | MINERAL SUBINDUSTRY..... | 1 052 | 427 | 1 303 | 176 | (NA) | (NA) |
| 1441 | SAND AND GRAVEL..... | 11 912 | 23 187 | 114 259 | (NA) | 390 | 6 280 |
| | MINERAL INDUSTRY..... | 6 189 | 2 551 | 7 900 | 840 | 108 | 993 |
| | INCLUDED IN MANUFACTURES..... | 5 723 | 636 | 6 359 | (NA) | 1282 | 5 287 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES..... | 1 835 | 410 | 2 122 | 123 | 281 | 2 258 |
| 1495 | PUMICE AND PUMICITE..... | 1 179 | 122 | 1 261 | 40 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁴Not shown since the value of supplies, minerals received for treatment, fuels, purchased electric energy, contract work, and purchased machinery installed exceeded value of shipments and receipts plus capital expenditures.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES.. | 141 179 | 84 606 | 25 603 | 17 892 | 13 078 | 42 600 | 20 276 | 22 324 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING..... | 135 878 | 81 590 | 25 603 | 16 619 | 12 066 | 40 017 | 19 110 | 20 907 | (x) | (x) | (x) | (x) |
| 1021 | COPPER ORES..... | 123 186 | 98 908 | (³) | 15 608 | 8 670 | 35 885 | 18 355 | 17 530 | 80 766 | 316 516 | (D) | (D) |
| 1081 | METAL MINING SERVICES..... | 5 640 | 3 192 | - | 186 | 2 262 | 2 272 | - | 2 272 | (x) | 14 686 | (x) | (⁵) |
| 14 | NONMETALLIC MINERALS MINING... | 3 842 | 2 637 | - | 261 | 944 | 1 307 | 36 | 1 271 | (x) | (x) | (x) | (x) |
| 144 | SAND AND GRAVEL..... | 2 551 | 1 752 | - | 167 | 632 | 840 | 6 | 834 | 6 977 | 14 921 | 73 651 | (⁶) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents crude ore mined, hence, is not directly comparable with the value of net shipments and receipts shown in the succeeding column.⁵Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 7.⁷Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 246 | 174 | 74 | 22 | 41 | 11 | 92 | 17 | 73 | 2 | 8 | 7 |
| | NUMBER OF EMPLOYEES..... | ² 13 817 | 13 693 | 1 995 | 1 259 | 724 | 12 | 11 243 | (D) | 7 385 | (D) | 455 | ² 12 333 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 274 922 | 275 116 | 33 048 | 18 331 | 14 478 | 239 | 232 245 | (D) | 185 025 | (D) | 9 823 | (² 3 333) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 143 | 82 | 47 | 20 | 25 | 2 | 31 | 13 | 17 | 1 | 4 | 6 |
| | NUMBER OF EMPLOYEES..... | 12 950 | 12 850 | 1 906 | (D) | 640 | (D) | 10 534 | (D) | (D) | (D) | 410 | 100 |
| | VALUE ADDED IN MINING.....\$1,000.. | 264 903 | 265 203 | 31 493 | (D) | 13 095 | (D) | 224 519 | (D) | (D) | (D) | 9 191 | (² 3 333) |
| 102 | COPPER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 65 | 40 | 21 | 6 | 14 | 1 | 18 | 7 | 11 | - | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 12 285 | 12 249 | (D) | 1 098 | (D) | (D) | 10 160 | 3 410 | 6 750 | - | (D) | 3 |
| | VALUE ADDED IN MINING.....\$1,000.. | 257 726 | 257 721 | (D) | 15 358 | (D) | (D) | 220 764 | 43 070 | 177 694 | - | (D) | 5 |
| 109 | MISCELLANEOUS METAL ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 19 | 13 | 10 | 6 | 3 | 1 | 2 | - | 1 | 1 | 1 | 6 |
| | NUMBER OF EMPLOYEES..... | 314 | 305 | (D) | 150 | (D) | (D) | (D) | - | (D) | (D) | (D) | 9 |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 123 | 4 116 | (D) | 2 904 | (D) | (D) | (D) | - | (D) | (D) | (D) | 7 |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 84 | 81 | 16 | - | 16 | - | 61 | 4 | 56 | 1 | 4 | 3 |
| | NUMBER OF EMPLOYEES..... | ² 851 | 838 | 84 | - | 84 | - | 709 | (D) | (D) | (D) | 45 | ² 100 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 9 725 | 9 741 | 1 383 | - | 1 383 | - | 7 726 | (D) | (D) | (D) | 632 | (² 3 333) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 37 | 37 | 3 | - | 3 | - | 32 | - | 31 | 1 | 2 | - |
| | NUMBER OF EMPLOYEES..... | 526 | 526 | (D) | - | (D) | - | 503 | - | (D) | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 189 | 6 189 | (D) | - | (D) | - | 5 858 | - | (D) | (D) | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Include service data for nonmetallic minerals mining.³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 290 | 41 | 15 525 | 109 006 | 13 126 | 29 353 | 90 399 | 295 733 | 142 467 | 395 579 | 42 621 | 15 609 | 195 533 |
| | MINERAL INDUSTRIES | 260 | 39 | 15 180 | 107 397 | 12 789 | 28 672 | 88 818 | 287 366 | 141 179 | 385 945 | 42 600 | 15 283 | 189 015 |
| | INCLUDED IN MANUFACTURES ² | 30 | 2 | 345 | 1 609 | 337 | 681 | 1 581 | 8 367 | 1 288 | 9 634 | 21 | 326 | 6 518 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | APACHE COUNTY, TOTAL | 38 | 2 | 164 | 646 | 151 | 266 | 579 | 1 736 | 2 088 | 2 576 | 1 248 | 274 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 29 | - | 17 | 80 | 12 | 19 | 61 | 719 | 1 327 | 912 | 1 134 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 13 | - | 12 | 48 | 8 | 10 | 35 | 352 | 1 103 | 362 | 1 093 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | - | 5 | 32 | 4 | 9 | 26 | 367 | 224 | 550 | 41 | (NA) | (NA) |
| | COCONINO COUNTY, TOTAL | 22 | 3 | 210 | 1 266 | 178 | 395 | 991 | 4 121 | 4 196 | 7 739 | 578 | 298 | 4 763 |
| 10 | METAL MINING | 10 | 3 | 172 | 1 096 | 143 | 324 | 830 | 2 980 | 4 038 | 6 478 | 540 | 241 | 4 452 |
| 149 | MISC. NONMETALLIC MINERALS | 5 | - | 30 | 138 | 27 | 53 | 129 | 1 083 | 80 | 1 140 | 23 | (NA) | (NA) |
| | GILA COUNTY, TOTAL | 24 | 4 | 2 114 | 13 748 | 1 722 | 3 610 | 10 405 | 37 356 | 30 640 | 64 501 | 3 495 | 2 166 | (NA) |
| 102 | COPPER ORES. | 8 | 4 | 2 071 | 13 611 | 1 684 | 3 535 | 10 277 | 36 990 | 30 341 | 63 989 | 3 342 | (NA) | (NA) |
| | MARICOPA COUNTY, TOTAL | 32 | 6 | 485 | 2 155 | 459 | 913 | 1 970 | 4 890 | 2 245 | 6 358 | 777 | 252 | 2 699 |
| 14 | NONMETALLIC MINERALS MINING. | 16 | 6 | 426 | 1 940 | 413 | 817 | 1 817 | 4 707 | 2 149 | 6 161 | 695 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 9 | 5 | 352 | 1 673 | 346 | 697 | 1 602 | 4 264 | 1 860 | 5 497 | 627 | (NA) | (NA) |
| | MOHAVE COUNTY, TOTAL | 15 | 1 | 195 | 1 151 | 185 | 384 | 1 108 | 2 820 | 2 045 | 3 040 | 1 825 | (NA) | (NA) |
| | NAVAJO COUNTY, TOTAL | 12 | 1 | 64 | 270 | 56 | 112 | 227 | 1 078 | 221 | 1 265 | 34 | 92 | 1 869 |
| | PIMA COUNTY, TOTAL | 52 | 10 | 3 223 | 22 661 | 2 775 | 6 203 | 19 284 | 88 529 | 43 360 | 110 348 | 21 541 | 2 467 | 37 047 |
| 142 | CRUSHED AND BROKEN STONE | 7 | - | 26 | 124 | 24 | 43 | 114 | 425 | 161 | 521 | 65 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 10 | 1 | 87 | 289 | 79 | 147 | 280 | 1 093 | 187 | 1 190 | 90 | (NA) | (NA) |
| | PINAL COUNTY, TOTAL. | 28 | 6 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | 2 | 73 | 249 | 65 | 113 | 228 | 578 | 237 | 731 | 84 | (NA) | (NA) |
| | YAVAPAI COUNTY, TOTAL. | 30 | 4 | 833 | 5 469 | 740 | 1 661 | 4 554 | 12 540 | 6 589 | 17 600 | 1 529 | 115 | 1 390 |
| 10 | METAL MINING | 22 | 4 | 804 | 5 398 | 714 | 1 626 | 4 486 | 12 362 | 6 534 | 17 393 | 1 503 | 106 | 1 239 |
| | UNDISTRIBUTED, TOTAL | 14 | - | 27 | 147 | 21 | 41 | 112 | 330 | 139 | 448 | 21 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | - | 18 | 100 | 15 | 29 | 86 | 275 | 125 | 385 | 15 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 121 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferrous alloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|---|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | |
| ARIZONA, TOTAL | 290 | 260 | 30 | 5 | 65 | 18 | 31 | – | 5 | 8 | 19 | – | – | 4 | 1 | 15 | – | 4 | 3 | 6 | 20 | 6 | 37 | 11 | 2 | 6 | – | 1 | 22 | 1 | |
| NO EMPLOYEES | 76 | 76 | – | 2 | 24 | 6 | 14 | – | 2 | 1 | 5 | – | – | – | – | 10 | – | – | – | 4 | – | 5 | – | – | – | – | – | – | – | – | |
| 1-4 EMPLOYEES | 109 | 93 | 16 | 3 | 15 | 7 | 14 | – | 3 | 3 | 8 | – | – | 2 | 1 | 4 | – | 2 | – | 4 | 9 | 1 | 10 | 5 | – | 6 | – | – | 12 | – | |
| 5-9 EMPLOYEES | 34 | 30 | 4 | – | 6 | 2 | 1 | – | – | 1 | 1 | – | – | – | – | 1 | – | 1 | 1 | – | 1 | 1 | 7 | 2 | 1 | – | – | 1 | 6 | 1 | |
| 10-19 EMPLOYEES | 30 | 22 | 8 | – | 1 | 2 | 1 | – | – | – | – | – | – | – | – | – | – | 1 | 2 | 2 | 5 | 4 | 8 | 2 | 1 | – | – | – | 1 | – | |
| 20-49 EMPLOYEES | 13 | 13 | – | – | 1 | 1 | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | 1 | – | 6 | – | – | – | – | – | – | 2 | – |
| 50-99 EMPLOYEES | 5 | 4 | 1 | – | 1 | – | – | – | – | – | 3 | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | |
| 100-249 EMPLOYEES | 5 | 4 | 1 | – | 2 | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | – | – | – | – | – | |
| 250-499 EMPLOYEES | 9 | 9 | – | – | 6 | – | – | – | – | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| 500-999 EMPLOYEES | 5 | 5 | – | – | 5 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| 1000 EMPLOYEES AND OVER | 4 | 4 | – | – | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| APACHE COUNTY, TOTAL | 38 | 38 | – | – | – | – | – | – | – | – | 4 | – | – | – | – | 13 | – | 16 | – | – | – | – | 3 | – | 1 | – | – | 1 | – | – | |
| 0-19 EMPLOYEES | 36 | 36 | – | – | – | – | – | – | – | – | 2 | – | – | – | – | 13 | – | 16 | – | – | – | – | 3 | – | 1 | – | – | 1 | – | – | |
| 20-99 EMPLOYEES | 2 | 2 | – | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | |
| COCHISE COUNTY, TOTAL | 12 | 11 | 1 | – | 3 | 3 | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | 2 | 1 | – | – | – | – | – | – | – | 1 | – |
| 0-19 EMPLOYEES | 9 | 8 | 1 | – | 1 | 3 | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | 1 | 1 | – | – | – | – | – | – | – | 1 | – |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – |
| 250 EMPLOYEES AND OVER | 2 | 2 | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| COCONINO COUNTY, TOTAL | 22 | 22 | – | – | 3 | – | – | – | 1 | 1 | 5 | – | – | 1 | 1 | 1 | – | 1 | – | – | 1 | – | 2 | – | – | – | – | – | – | 5 | – |
| 0-19 EMPLOYEES | 19 | 19 | – | – | 2 | – | – | – | 1 | 1 | 3 | – | – | 1 | 1 | 1 | – | 1 | – | – | 1 | – | 2 | – | – | – | – | – | – | 5 | – |
| 20-99 EMPLOYEES | 3 | 3 | – | – | 1 | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| GILA COUNTY, TOTAL | 25 | 24 | 1 | 2 | 8 | 1 | 2 | – | – | 3 | 2 | – | – | – | – | – | – | – | – | – | 1 | 1 | 1 | – | – | – | – | – | – | 4 | – |
| 0-19 EMPLOYEES | 21 | 20 | 1 | 2 | 4 | 1 | 2 | – | – | 3 | 2 | – | – | – | – | – | – | – | – | – | 1 | 1 | 1 | – | – | – | – | – | – | 4 | – |
| 250 EMPLOYEES AND OVER | 4 | 4 | – | – | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| GRAHAM COUNTY, TOTAL | 7 | 7 | – | – | 1 | 2 | – | – | – | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – |
| 0-19 EMPLOYEES | 6 | 6 | – | – | 1 | 2 | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| GREENLEE COUNTY, TOTAL | 4 | 4 | – | – | 1 | – | 1 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – |
| 0-19 EMPLOYEES | 3 | 3 | – | – | – | – | 1 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – |
| 250 EMPLOYEES AND OVER | 1 | 1 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| MARICOPA COUNTY, TOTAL | 42 | 32 | 10 | – | – | – | 7 | – | 1 | 1 | 3 | – | – | 1 | – | – | – | 3 | – | – | 4 | – | 9 | 7 | – | 2 | – | – | – | 3 | 1 |
| 0-19 EMPLOYEES | 34 | 26 | 8 | – | – | – | 7 | – | 1 | 1 | 3 | – | – | 1 | – | – | – | 3 | – | – | 4 | – | 4 | 5 | – | 2 | – | – | – | 2 | 1 |
| 20-99 EMPLOYEES | 6 | 5 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 | 1 | – | – | – | – | – | – | 1 | – |
| 100-249 EMPLOYEES | 2 | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | – | – | – | – | – | – | – |
| MOHAVE COUNTY, TOTAL | 15 | 15 | – | – | 1 | – | 3 | – | 1 | 2 | 2 | – | – | – | – | 1 | – | – | – | – | 2 | – | 1 | – | 1 | – | – | – | – | 1 | – |
| 0-19 EMPLOYEES | 14 | 14 | – | – | 1 | – | 3 | – | 1 | 1 | 2 | – | – | – | – | 1 | – | – | – | – | 2 | – | 1 | – | 1 | – | – | – | – | 1 | – |
| 100-249 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| NAVAJO COUNTY, TOTAL | 13 | 12 | 1 | – | – | – | – | – | – | 2 | 3 | – | – | – | – | – | – | 2 | – | 1 | – | – | 2 | – | – | – | – | – | 1 | 1 | – |
| 0-19 EMPLOYEES | 12 | 11 | 1 | – | – | – | – | – | – | 2 | 2 | – | – | – | – | 1 | – | 2 | – | 1 | – | – | 2 | – | – | – | – | – | 1 | 1 | – |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| PIMA COUNTY, TOTAL | 59 | 52 | 7 | – | 17 | 4 | 3 | – | 1 | 6 | – | – | – | – | – | – | – | 2 | 1 | 1 | 7 | 2 | 10 | 1 | – | 3 | – | – | – | – | – |
| 0-19 EMPLOYEES | 49 | 42 | 7 | – | 11 | 4 | 3 | – | 1 | 3 | – | – | – | – | – | 1 | – | 2 | 1 | 1 | 7 | 2 | 9 | 1 | – | 3 | – | – | – | – | – |
| 20-99 EMPLOYEES | 3 | 3 | – | – | 1 | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – |
| 100-249 EMPLOYEES | 3 | 3 | – | – | 1 | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| 250 EMPLOYEES AND OVER | 4 | 4 | – | – | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| PINAL COUNTY, TOTAL | 29 | 28 | 1 | 2 | 9 | 4 | 1 | – | 1 | 3 | – | – | – | – | – | – | – | – | – | – | 1 | – | 4 | 1 | – | – | – | – | – | 3 | – |
| 0-19 EMPLOYEES | 23 | 22 | 1 | 2 | 6 | 3 | 1 | – | 1 | 3 | – | – | – | – | – | – | – | – | – | – | 1 | – | 3 | 1 | – | – | – | – | – | 2 | – |
| 20-99 EMPLOYEES | 3 | 3 | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | | | | | | | | | | | | |

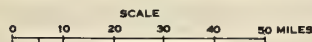
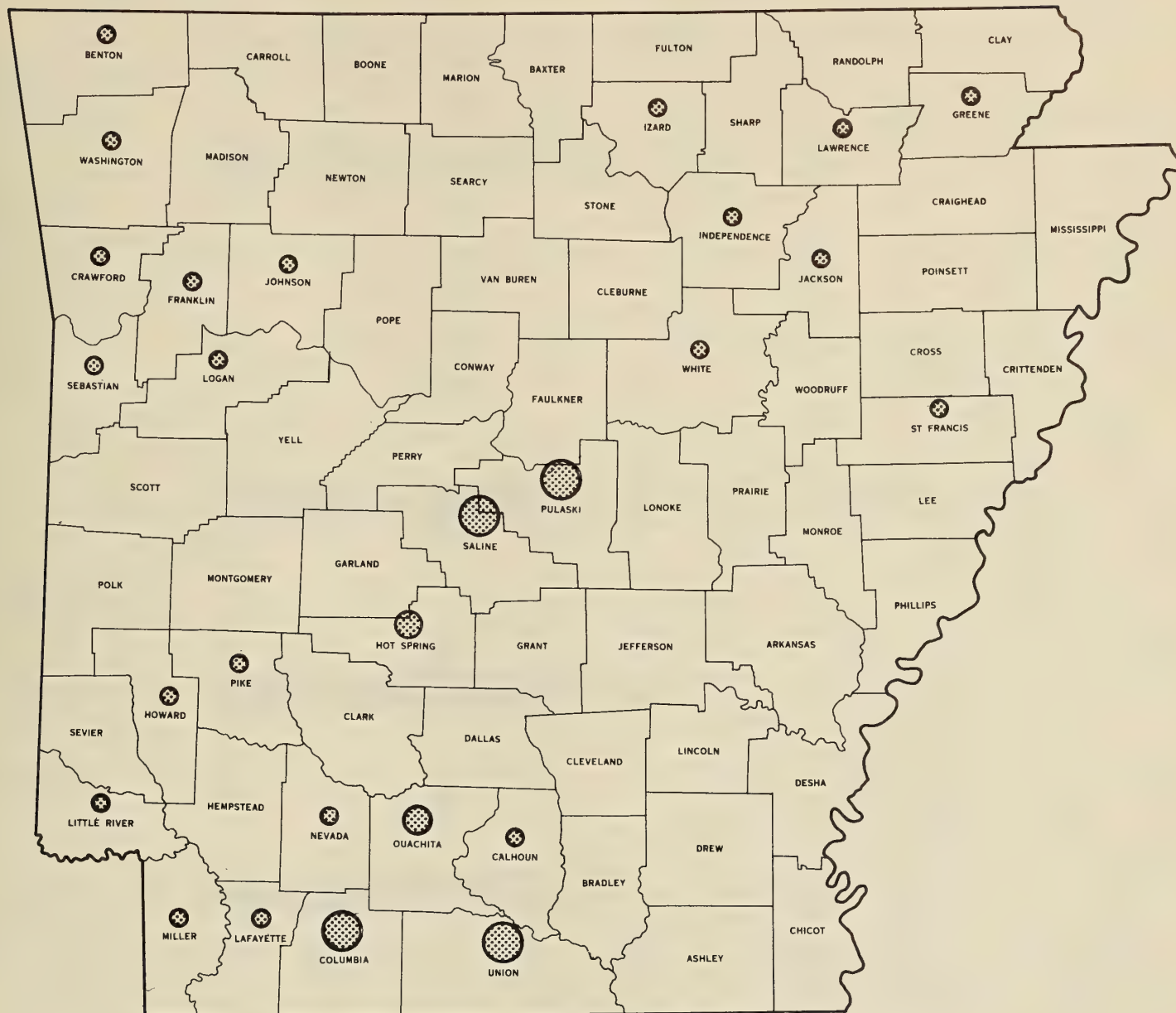
EMPLOYMENT IN MINING BY COUNTY: 1963

ARKANSAS

RANK AMONG STATES

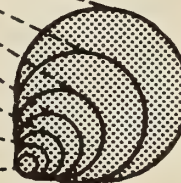
EMPLOYMENT - 28

VALUE OF SHIPMENT - 24



EMPLOYMENT

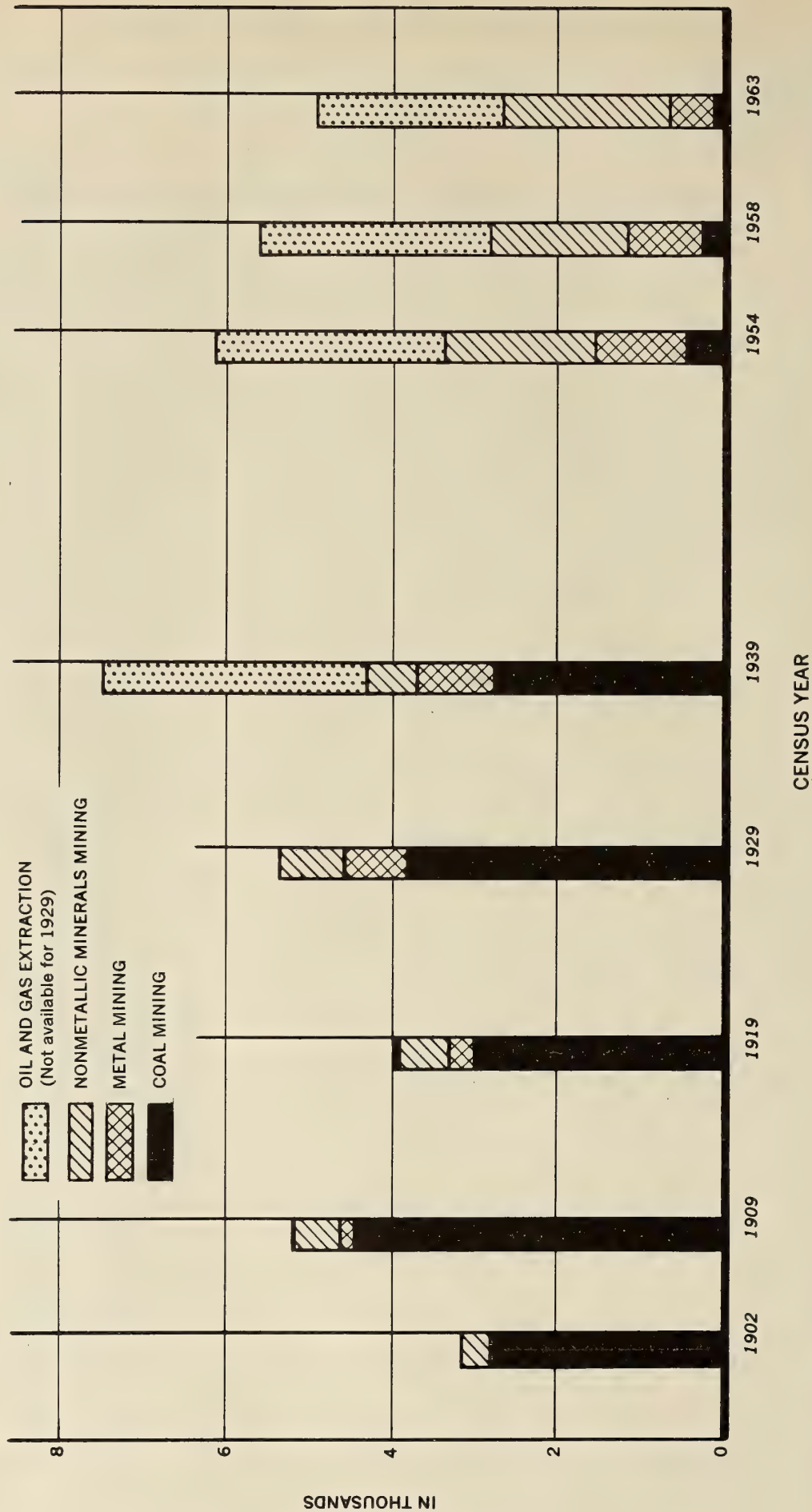
- 8000 - 12000
- 4000 - 7999
- 2000 - 3999
- 1000 - 1999
- 500 - 999
- 200 - 499
- 25 - 199



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

ARKANSAS



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---|---|--|-------------------------------|--|--|--------------------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 422 | 60 | 4 727 | 23 588 | 3 965 | 8 124 | 18 714 | 110 162 | |
| 1958 | 443 | 61 | 5 302 | 23 425 | 4 074 | 7 924 | 16 362 | 110 530 | |
| 1954 | 410 | 67 | 5 910 | 22 483 | 4 985 | 9 986 | 17 501 | 110 904 | |
| INCLUDING OPERATIONS IN MANUFACTURES: ALL OPERATIONS: | | | | | | | | | |
| 1963 | 452 | 62 | 4 921 | 24 439 | 4 157 | 8 496 | 19 558 | 113 876 | |
| 1958 | 463 | 66 | 5 635 | 24 587 | 4 399 | 8 525 | 17 503 | 114 459 | |
| 1954 ² | 423 | 72 | 6 131 | 22 977 | 5 206 | 10 425 | 17 995 | 110 107 | |
| 1939 ³ | 307 | (NA) | 7 477 | 8 734 | 6 926 | 10 737 | 7 446 | 22 150 | |
| 1919 ⁵ | 126 | (NA) | 3 964 | 5 175 | 3 630 | (NA) | 4 573 | 6 423 | |
| 1909 ⁵ | 121 | (NA) | 5 183 | 3 270 | 4 941 | (NA) | 3 031 | 3 973 | |
| 1902 ⁶ | 126 | (NA) | 3 156 | 2 139 | 72 945 | (NA) | 1 946 | 2 591 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 167 | 32 | 677 | 13 244 | 2 314 | 4 926 | 10 963 | 46 002 | |
| 1958 | 169 | 34 | 2 829 | 11 180 | 2 361 | 4 584 | 8 749 | 34 128 | |
| 1954 ² | 155 | 37 | 3 392 | 12 017 | 3 033 | 6 221 | 10 213 | 40 022 | |
| 1939 | 143 | (NA) | 4 315 | 3 668 | 4 026 | 5 518 | 3 117 | 5 793 | |
| 1929 ⁸ | 128 | (NA) | 5 381 | 5 726 | 5 030 | (NA) | 4 917 | 9 558 | |
| 1919 ⁵ | 119 | (NA) | 3 924 | 5 119 | 3 614 | (NA) | 4 546 | 6 135 | |
| 1909 ⁵ | 117 | (NA) | 5 170 | 3 255 | 4 939 | (NA) | 3 030 | 3 962 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 26 671 | 14 621 | 13 438 | 7 909 | 155 475 | 17 326 | 4 232 | 1 067 | 402 |
| 1958 | 10 19 858 | 10 3 456 | 11 084 | 7 814 | 136 473 | 16 269 | 3 750 | 920 | (NA) |
| 1954 | 19 951 | 11 2 085 | 12 855 | 7 139 | 136 241 | 13 690 | 3 793 | 761 | 359 |
| INCLUDING OPERATIONS IN MANUFACTURES: ALL OPERATIONS: | | | | | | | | | |
| 1963 | 12 27 648 | 14 621 | 12 13 438 | 7 909 | 160 166 | 13 17 326 | 13 4 232 | 1 067 | 13 402 |
| 1958 | 10 12 20 530 | 10 3 456 | 12 11 094 | 7 816 | 141 084 | 13 16 271 | 13 3 752 | 853 | (NA) |
| 1954 ² | 12 20 386 | 11 2 085 | 12 12 855 | 7 139 | 138 879 | 13 13 690 | 13 3 793 | 729 | 13 359 |
| 1939 ³ | 4 040 | (NA) | 5 158 | (NA) | 31 348 | (NA) | 3 306 | 477 | 142 |
| 1919 ⁵ | 1 677 | 14 166 | 139 | (NA) | 8 405 | (NA) | 15 690 | 190 | 21 |
| 1909 ⁵ | 510 | - | 121 | (NA) | 4 604 | (NA) | (NA) | (NA) | 14 |
| 1902 ⁶ | 244 | (NA) | 5 | (NA) | 2 840 | (NA) | (NA) | (NA) | 7 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 12 14 531 | 1 172 | 12 732 | 13 7 229 | 63 619 | 13 547 | 13 343 | 633 | 13 166 |
| 1958 | 10 12 7 828 | (10) 3 456 | 12 533 | 12 981 | 42 515 | 12 955 | 13 405 | 172 | (NA) |
| 1954 ² | 12 9 222 | 946 | 12 258 | 12 637 | 52 749 | 12 333 | 13 610 | 201 | 13 159 |
| 1939 | 1 560 | (NA) | 54 | (NA) | 7 407 | (NA) | 402 | 100 | 70 |
| 1929 ⁸ | 1 703 | (NA) | 107 | 619 | 11 368 | (NA) | 504 | 100 | 38 |
| 1919 ⁵ | 1 591 | - | 57 | (NA) | 7 783 | (NA) | 15 667 | 185 | 21 |
| 1909 ⁵ | 473 | - | 43 | (NA) | 4 478 | (NA) | (NA) | (NA) | 14 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Includes data for one or two establishments primarily engaged in oil and gas field hauling. Such operations were not classified in the mineral industries for 1954 and 1958.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas, and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel operations, and stone quarries operated as parts of cement and lime plants. In 1929, there were 16 such sand and gravel establishments, with products valued at \$1,572 thousand, and 3 such stone quarries at lime plants.

See also footnote 8. For 1919, also excludes data for 2 nonproducing establishments. For "Excluding oil and gas extraction industries" in 1909, except for number of establishments includes data for one nonproducing establishment in these industries.

⁶Excludes data for sand, gravel, common clay, and shale operations. Includes data for lime plants producing lime valued at \$83 thousand. No oil extraction operations were reported for 1902, hence, these figures are also comparable with those shown for later years for "Excluding oil and gas extraction industries."

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Excludes data for common clay and shale operations. In 1939, there were 10 such clay and shale mines, with products valued at \$80 thousand.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishments in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁰For Metal Mining Industries, the cost of minerals received for preparation is included with the cost of supplies, purchases for resale and purchased fuels and electric energy.

¹¹Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹³Excludes data for crushed and broken stone, sand and gravel and clay mining operations in manufacturing establishments and for 1963, excludes data for dimension stone mining in manufacturing establishments.

¹⁴Represents cost of gas purchased for resale.

¹⁵Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 3 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|---------------------------------------|--|---|--------------------------------------|--|---------------------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 452 | 62 | 4 921 | 24 439 | 4 157 | 8 496 | 19 558 |
| | MINERAL INDUSTRIES | 422 | 60 | 4 727 | 23 588 | 3 965 | 8 124 | 18 714 |
| | INCLUDED IN MANUFACTURES | 30 | 2 | 194 | 851 | 192 | 372 | 844 |
| 10 | METAL MINING | 15 | 5 | 543 | 23 878 | 414 | 2986 | 2 796 |
| 1051 | BAUXITE. | 8 | 4 | 489 | 3 151 | 368 | 671 | 2 101 |
| 12 | BITUMINOUS COAL MINING | 18 | 1 | 109 | (²) | 107 | (²) | (²) |
| 1211 | BITUMINOUS COAL. | 17 | 1 | 107 | 523 | 105 | 206 | 517 |
| 13 | OIL AND GAS EXTRACTION | 285 | 30 | 2 244 | 11 195 | 1 843 | 3 570 | 8 595 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 212 | 13 | 1 207 | 6 688 | 891 | 1 878 | 4 571 |
| | CRUDE PETROLEUM. | 201 | 11 | 1 032 | 5 644 | 766 | 1 591 | 3 873 |
| | NATURAL GAS. | 11 | 2 | 175 | 1 044 | 125 | 287 | 698 |
| 1321 | NATURAL GAS LIQUIDS. | 6 | 2 | 139 | 876 | 117 | 227 | 692 |
| 138 | OIL AND GAS FIELD SERVICES | 67 | 15 | 898 | 3 631 | 835 | 1 465 | 3 332 |
| 1381 | DRILLING OIL AND GAS WELLS | 25 | 11 | 532 | 2 406 | 501 | 836 | 2 250 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . . | 37 | 4 | 357 | 1 190 | 326 | 611 | 1 050 |
| 14 | NONMETALLIC MINERALS MINING. | 134 | 26 | 2 025 | 9 366 | 1 793 | 3 940 | 8 167 |
| | MINERAL INDUSTRIES | 104 | 24 | 1 831 | 8 515 | 1 601 | 3 568 | 7 323 |
| | INCLUDED IN MANUFACTURES | 30 | 2 | 194 | 851 | 192 | 372 | 844 |
| | DIMENSION STONE. | 12 | 3 | 95 | 228 | 88 | 152 | 216 |
| 1441 | SAND AND GRAVEL. | 65 | 7 | 478 | 2 003 | 434 | 977 | 1 778 |
| | MINERAL INDUSTRY | 57 | 7 | 466 | 1 966 | 422 | 953 | 1 741 |
| 145 | CLAY AND RELATED MINERALS. | 18 | 1 | 136 | 640 | 136 | 265 | 640 |
| | MINERAL INDUSTRIES | 3 | - | 15 | 88 | 15 | 33 | 86 |
| | INCLUDED IN MANUFACTURES | 15 | 1 | 121 | 1552 | 121 | 232 | 552 |
| | CLAY AND RELATED MINERALS. | 13 | - | 143 | 1206 | 143 | 64 | 206 |
| | MISCELLANEOUS MINERALS, N.E.C. ¹ | 7 | 1 | 39 | 195 | 35 | 74 | 172 |
| | MINERAL INDUSTRIES | | | | | | | |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) | |
| | ALL MINERAL OPERATIONS | 113 876 | 363 618 | 160 166 | (NA) | 5 635 | 114 459 | |
| | MINERAL INDUSTRIES | 110 162 | 62 639 | 155 475 | 17 326 | 45 302 | 110 530 | |
| | INCLUDED IN MANUFACTURES | 3 714 | 3979 | 14 691 | (NA) | 333 | 3 929 | |
| 10 | METAL MINING | 218 515 | 24 311 | 222 225 | 2601 | 21 149 | 218 700 | |
| 1051 | BAUXITE. | 16 725 | 3 615 | 20 147 | 193 | 632 | 15 023 | |
| 12 | BITUMINOUS COAL MINING | (²) | (²) | (²) | (²) | (²) | (²) | |
| 1211 | BITUMINOUS COAL. | 1 338 | 493 | 1 528 | 313 | 252 | 2 081 | |
| 13 | OIL AND GAS EXTRACTION | 67 874 | 42 452 | 96 547 | 13 779 | 2 806 | 80 331 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 58 488 | 22 869 | 68 982 | 12 375 | 1 905 | 70 497 | |
| | CRUDE PETROLEUM. | 49 302 | 17 801 | 57 769 | 9 334 | 1 803 | 68 115 | |
| | NATURAL GAS. | 9 186 | 5 068 | 11 213 | 3 041 | 102 | 2 382 | |
| 1321 | NATURAL GAS LIQUIDS. | 2 336 | 14 483 | 16 701 | 118 | 205 | 4 114 | |
| 138 | OIL AND GAS FIELD SERVICES | 7 050 | 5 100 | 10 864 | 1 286 | 696 | 5 720 | |
| 1381 | DRILLING OIL AND GAS WELLS | 4 622 | 4 340 | 7 917 | 1 045 | 419 | 3 700 | |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . . | 2 370 | 744 | 2 877 | 237 | 271 | 1 863 | |
| 14 | NONMETALLIC MINERALS MINING. | 27 487 | 316 855 | 141 394 | 2 948 | 1 680 | 15 428 | |
| | MINERAL INDUSTRIES | 25 773 | 15 876 | 36 703 | 2 946 | 41 347 | 11 499 | |
| | INCLUDED IN MANUFACTURES | 3 714 | 3979 | 14 691 | 2 | 333 | 3 929 | |
| | DIMENSION STONE. | 362 | 213 | 537 | 38 | 142 | 465 | |
| 1441 | SAND AND GRAVEL. | 4 817 | 3 027 | 6 689 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY | 4 547 | 3 001 | 6 393 | 1 155 | 389 | 2 845 | |
| 145 | CLAY AND RELATED MINERALS. | 1 481 | 3774 | 12 248 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRIES | 305 | 226 | 524 | 7 | (NA) | (NA) | |
| | INCLUDED IN MANUFACTURES | 1 176 | 3548 | 11 724 | (NA) | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS. | 424 | 3167 | 1584 | (NA) | 1137 | 109 | |
| | MISCELLANEOUS MINERALS, N.E.C. ¹ | | | | | | | |
| | MINERAL INDUSTRIES | 442 | 174 | 515 | 101 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development and exploration worker was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Figures for Bituminous Coal Mining are included with those for Metal Mining.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

⁴Includes figures for two establishments classified for 1963 in the manufacturing industries.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 62 639 | 26 671 | 14 621 | 13 438 | 7 909 | 17 326 | 7 588 | 9 738 | (x) | (x) | (x) | (x) |
| | METAL MINING: | | | | | | | | | | | | |
| 1051 | BAUXITE | 3 615 | 899 | 1 158 | 1 162 | 396 | 193 | 28 | 165 | (D) | (D) | - | - |
| 13 | OIL AND GAS EXTRACTION. . . . | 42 452 | 13 117 | 13 449 | 10 706 | 5 180 | 13 779 | 7 511 | 6 268 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 22 869 | 9 191 | - | 10 359 | 3 319 | 12 375 | 7 503 | 4 872 | (x) | 67 424 | (x) | 155 |
| | CRUDE PETROLEUM. | 17 801 | 7 034 | - | 8 049 | 2 718 | 9 334 | 5 477 | 3 857 | ³ 20 536 | 53 646 | ³ 114 | 300 |
| | NATURAL GAS. | 5 068 | 2 157 | - | 2 310 | 601 | 3 041 | 2 026 | 1 015 | ⁴ 43 763 | 10 291 | ⁴ 21 633 | 3 342 |
| 1321 | NATURAL GAS LIQUIDS | 14 483 | 965 | 13 449 | 11 | 58 | 118 | - | 118 | ⁵ 2 217 | 55 015 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 5 100 | 2 961 | - | 336 | 1 803 | 1 286 | 8 | 1 278 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 4 340 | 2 490 | - | 272 | 1 578 | 1 045 | 8 | 1 037 | (x) | 68 767 | (x) | (⁶) |
| 14 | NONMETALLIC MINERALS MINING . | 15 876 | 12 258 | 14 | 1 524 | 2 080 | 2 946 | 35 | 2 911 | (x) | (x) | (x) | (x) |
| 144 | SAND AND GRAVEL | 3 001 | 1 865 | - | 373 | 763 | 1 155 | 22 | 1 133 | 6 092 | 77 990 | 439 | (⁷) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁴Represents millions of cubic feet of natural gas shipped.⁵Represents net shipments of natural gas liquids only. The quantity is in thousands of barrels.⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁷Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | 352 | 309 | 225 | 6 | 40 | 179 | 72 | 6 | 59 | 7 | 12 | 43 |
| | NUMBER OF ESTABLISHMENTS | 3 818 | 3 742 | 1 676 | 24 | 252 | 1 400 | 1 827 | 99 | 1 349 | 379 | 239 | 76 |
| | NUMBER OF EMPLOYEES. | 103 238 | 104 706 | 76 727 | 266 | 7 742 | 68 719 | 24 388 | 1 292 | 18 907 | 4 189 | 3 591 | (¹) |
| | VALUE ADDED IN MINING. . . \$1,000 . | | | | | | | | | | | | |
| 10 | METAL MINING | 14 | 9 | 4 | 1 | 2 | 1 | 1 | - | 1 | - | 4 | 5 |
| | NUMBER OF ESTABLISHMENTS | 502 | 485 | (D) | (D) | (D) | (D) | (D) | - | (D) | - | (D) | 17 |
| | NUMBER OF EMPLOYEES. | 16 916 | 16 914 | (D) | (D) | (D) | (D) | (D) | - | (D) | - | (D) | 2 |
| | VALUE ADDED IN MINING. . . \$1,000 . | | | | | | | | | | | | |
| 105 | BAUXITE | 8 | 8 | 4 | 1 | 2 | 1 | - | - | - | - | 4 | - |
| | NUMBER OF ESTABLISHMENTS | 473 | 473 | (D) | (D) | (D) | (D) | - | - | - | - | (D) | - |
| | NUMBER OF EMPLOYEES. | 16 725 | 16 725 | (D) | (D) | (D) | (D) | - | - | - | - | (D) | - |
| | VALUE ADDED IN MINING. . . \$1,000 . | | | | | | | | | | | | |
| 13 | OIL AND GAS EXTRACTION | 218 | 184 | 178 | - | - | 178 | - | - | - | - | 6 | 34 |
| | NUMBER OF ESTABLISHMENTS | 1 322 | (D) | (D) | - | - | (D) | - | - | - | - | 139 | (D) |
| | NUMBER OF EMPLOYEES. | 61 059 | (D) | (D) | - | - | (D) | - | - | - | - | 2 336 | (D) |
| | VALUE ADDED IN MINING. . . \$1,000 . | | | | | | | | | | | | |
| 14 | NONMETALLIC MINERALS MINING | 103 | 99 | 31 | - | 31 | - | 66 | 3 | 56 | 7 | 2 | 4 |
| | NUMBER OF ESTABLISHMENTS | 1 899 | 1 891 | (D) | - | (D) | - | 1 760 | 74 | 1 307 | 379 | (D) | 8 |
| | NUMBER OF EMPLOYEES. | 24 059 | 24 064 | (D) | - | (D) | - | 23 360 | 1 009 | 18 162 | 4 189 | (D) | (¹) |
| | VALUE ADDED IN MINING. . . \$1,000 . | | | | | | | | | | | | |
| 142 | CRUSHED AND BROKEN STONE | 23 | 20 | 1 | - | 1 | - | 18 | 2 | 16 | - | 1 | 3 |
| | NUMBER OF ESTABLISHMENTS | 898 | (D) | (D) | - | (D) | - | 869 | (D) | (D) | - | (D) | (D) |
| | NUMBER OF EMPLOYEES. | 14 809 | (D) | (D) | - | (D) | - | 14 472 | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING. . . \$1,000 . | | | | | | | | | | | | |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|---|-----------------------------|---------------------------|---------------|---------|--|-----------|--------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 452 | 62 | 4 921 | 24 439 | 4 157 | 8 496 | 19 558 | 113 876 | 63 618 | 160 166 | (NA) | 5 635 | 114 459 |
| | MINERAL INDUSTRIES | 422 | 60 | 4 727 | 23 588 | 3 965 | 8 124 | 18 714 | 110 162 | 62 391 | 155 475 | 17 326 | 5 302 | 110 530 |
| | INCLUDED IN MANUFACTURES ² | 30 | 2 | 194 | 851 | 192 | 372 | 844 | 3 714 | 979 | 4 691 | (NA) | 333 | 3 929 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ASHLEY COUNTY, TOTAL | 3 | - | 8 | 47 | 8 | 19 | 46 | 802 | 117 | 867 | 52 | (NA) | (NA) |
| | BRADLEY COUNTY, TOTAL. | 8 | - | 7 | 50 | 6 | 14 | 44 | 596 | 297 | 796 | 97 | (NA) | (NA) |
| | CALHOUN COUNTY, TOTAL. | 10 | - | 32 | 117 | 28 | 59 | 96 | 437 | 353 | 726 | 64 | (NA) | (NA) |
| | COLUMBIA COUNTY, TOTAL | 72 | 8 | 506 | 2 732 | 401 | 797 | 1 964 | 12 739 | 16 210 | 27 989 | 960 | 2 699 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 39 | 3 | 236 | 1 548 | 151 | 304 | 909 | 10 552 | 1 855 | 11 741 | 666 | 333 | (NA) |
| | CRAWFORD COUNTY, TOTAL | 12 | 2 | 80 | 461 | 46 | 100 | 219 | 2 875 | 1 067 | 2 927 | 1 015 | 27 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 6 | 1 | 47 | 321 | 15 | 37 | 88 | 2 384 | 755 | 2 142 | 997 | (NA) | (NA) |
| | FRANKLIN COUNTY, TOTAL | 15 | 2 | 88 | 488 | 74 | 158 | 399 | 3 975 | 2 899 | 5 424 | 1 450 | 113 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 8 | 1 | 65 | 362 | 52 | 124 | 280 | 3 416 | 2 695 | 4 670 | 1 441 | 64 | (NA) |
| | HOT SPRING COUNTY, TOTAL | 4 | 3 | 346 | 1 635 | 291 | 604 | 1 400 | 3 819 | 1 898 | 5 567 | 150 | (NA) | (NA) |
| | JOHNSON COUNTY, TOTAL. | 18 | 1 | 86 | 466 | 79 | 171 | 424 | 3 010 | 876 | 3 207 | 679 | 108 | (NA) |
| 12 | BITUMINOUS COAL MINING..... | 6 | - | 48 | 244 | 48 | 96 | 244 | 650 | 198 | 621 | 227 | 104 | 1 104 |
| 1211 | BITUMINOUS COAL. | 6 | - | 48 | 244 | 48 | 96 | 244 | 650 | 198 | 621 | 227 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 12 | 1 | 38 | 222 | 31 | 75 | 180 | 2 360 | 678 | 2 586 | 452 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 6 | 1 | 34 | 198 | 28 | 70 | 165 | 2 278 | 648 | 2 475 | 451 | (NA) | (NA) |
| | LAFAYETTE COUNTY, TOTAL. | 49 | 2 | 176 | 1 041 | 153 | 270 | 863 | 10 749 | 3 375 | 13 377 | 747 | 204 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 49 | 2 | 176 | 1 041 | 153 | 270 | 863 | 10 749 | 3 375 | 13 377 | 747 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 28 | - | 34 | 168 | 30 | 62 | 149 | 8 801 | 2 324 | 10 521 | 604 | 71 | (NA) |
| | LOGAN COUNTY, TOTAL. | 16 | 2 | 67 | 193 | 61 | 114 | 173 | 338 | 897 | 667 | 568 | 84 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 8 | - | 3 | 23 | 2 | 3 | 8 | 170 | 783 | 420 | 533 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 3 | 23 | 2 | 3 | 8 | 141 | 782 | 390 | 533 | (NA) | (NA) |
| | MILLER COUNTY, TOTAL | 41 | 4 | 176 | 778 | 157 | 326 | 688 | 8 555 | 2 787 | 9 187 | 2 155 | 159 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 28 | 1 | 45 | 178 | 37 | 82 | 133 | 7 495 | 1 398 | 6 983 | 1 910 | 58 | (NA) |
| | NEVADA COUNTY, TOTAL | 26 | 1 | 63 | 260 | 61 | 118 | 252 | 2 032 | 513 | 2 242 | 303 | 58 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 16 | 1 | 36 | 152 | 36 | 66 | 152 | 1 737 | 455 | 1 909 | 283 | 46 | (NA) |
| | OUACHITA COUNTY, TOTAL | 81 | 1 | 233 | 1 041 | 193 | 384 | 864 | 7 501 | 3 072 | 9 397 | 1 176 | 394 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 81 | 1 | 233 | 1 041 | 193 | 384 | 864 | 7 501 | 3 072 | 9 397 | 1 176 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 61 | 1 | 159 | 831 | 134 | 278 | 676 | 7 150 | 2 861 | 8 874 | 1 137 | 291 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 20 | - | 74 | 210 | 59 | 106 | 188 | 351 | 211 | 523 | 39 | (NA) | (NA) |
| | POPE COUNTY, TOTAL | 11 | - | 17 | 80 | 15 | 23 | 56 | 824 | 298 | 899 | 223 | 39 | (NA) |
| | SALINE COUNTY, TOTAL | 8 | 3 | 484 | 3 032 | 385 | 699 | 2 174 | 16 768 | 3 177 | 19 690 | 255 | 525 | 14 078 |
| | SEBASTIAN COUNTY, TOTAL. | 23 | 1 | 110 | 600 | 88 | 169 | 438 | 1 361 | 1 317 | 1 769 | 909 | 195 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 15 | 1 | 89 | 535 | 69 | 133 | 379 | 1 208 | 1 257 | 1 584 | 881 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 6 | - | 25 | 162 | 15 | 37 | 89 | 686 | 947 | 796 | 837 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | 1 | 64 | 373 | 54 | 96 | 290 | 522 | 310 | 788 | 44 | (NA) | (NA) |
| | UNION COUNTY, TOTAL. | 156 | 9 | 740 | 3 437 | 575 | 1 167 | 2 674 | 13 711 | 7 005 | 18 344 | 2 372 | 990 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 990 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 112 | 5 | 411 | 2 113 | 286 | 609 | 1 515 | 11 194 | 4 835 | 13 963 | 2 066 | 730 | (NA) |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| | UNDISTRIBUTED. TOTAL | 38 | - | 103 | 545 | 86 | 146 | 468 | 1 544 | 421 | 1 945 | 276 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 38 | - | 103 | 545 | 86 | 146 | 468 | 1 544 | 421 | 1 945 | 276 | 297 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . . | 7 | - | 17 | 71 | 10 | 14 | 33 | 557 | 82 | 634 | 5 | 220 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 31 | - | 86 | 474 | 76 | 132 | 435 | 987 | 339 | 1 311 | 271 | 77 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|-----------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | In-cluded in manu-fac-tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| INDEPENDENCE COUNTY, TOTAL | 12 | 10 | 2 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 1 | 1 | 1 | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 1 | 1 | 1 | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| IZARD COUNTY, TOTAL. | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | 1 | 3 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | 1 | 2 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| JACKSON COUNTY, TOTAL. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY, TOTAL. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| JOHNSON COUNTY, TOTAL. | 19 | 18 | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | 6 | - | 6 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 17 | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | 6 | - | 6 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LAFAYETTE COUNTY, TOTAL. | 49 | 49 | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 2 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 47 | 47 | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 1 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LAWRENCE COUNTY, TOTAL. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| LEE COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| LINCOLN COUNTY, TOTAL. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| LITTLE RIVER COUNTY, TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 1 | - | 1 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LOGAN COUNTY, TOTAL. | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | 3 | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| LONOKE COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| MARION COUNTY, TOTAL | 2 | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MILLER COUNTY, TOTAL | 43 | 41 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 28 | - | 12 | - | - | - | 1 | - | - | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 37 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 27 | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| MISSISSIPPI COUNTY, TOTAL. | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| NEVADA COUNTY, TOTAL | 26 | 26 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 25 | 25 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NEWTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| OUACHITA COUNTY, TOTAL | 81 | 81 | - | - | - | - | - | - | - | - | - | - | - | - | - | 61 | - | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | 60 | - | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PIKE COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 4 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| POINSETT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| POLK COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| POPE COUNTY, TOTAL | 13 | 11 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 2 | - | 1 | 1 | - | - | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 11 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 2 | - | 1 | 1 | - | - | 1 | - | 1 | - | - | - | - |
| PULASKI COUNTY, TOTAL. | 15 | 10 | 5 | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 3 | - | 2 | 2 | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 5 | 3 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 2 | 2 | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES. | 5 | 3 | 2 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ST FRANCIS COUNTY, TOTAL | 4 | 4 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SALINE COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEARCY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SEBASTIAN COUNTY, TOTAL | 23 | 23 | 1 | - | - | - | - | - | - | - | - | - | - | 7 | - | 6 | - | 9 | - | - | - | - | - | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 22 | 1 | - | - | - | - | - | - | - | - | - | - | 7 | - | 6 | - | 8 | - | - | - | - | - | - | 1 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| SEVIER COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| STONE COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| UNION COUNTY, TOTAL | 157 | 156 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 112 | 3 | 39 | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 148 | 147 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 107 | 3 | 35 | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| VAN BUREN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| WASHINGTON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |
| WHITE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| WOODRUFF COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| YELL COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OFFSHORE, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 38 | 38 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 31 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 38 | 38 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 31 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

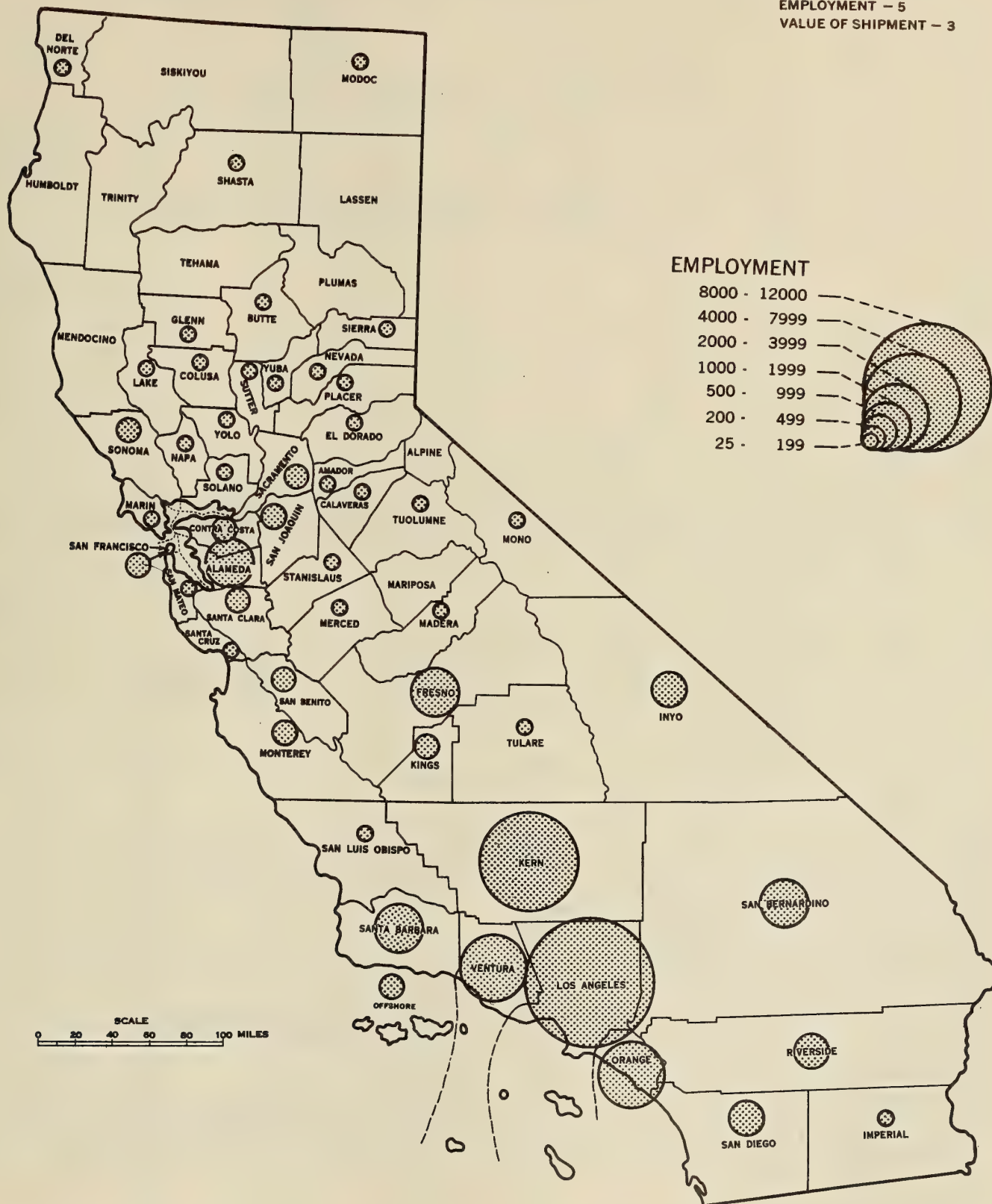
EMPLOYMENT IN MINING BY COUNTY: 1963

CALIFORNIA

RANK AMONG STATES

EMPLOYMENT - 5

VALUE OF SHIPMENT - 3



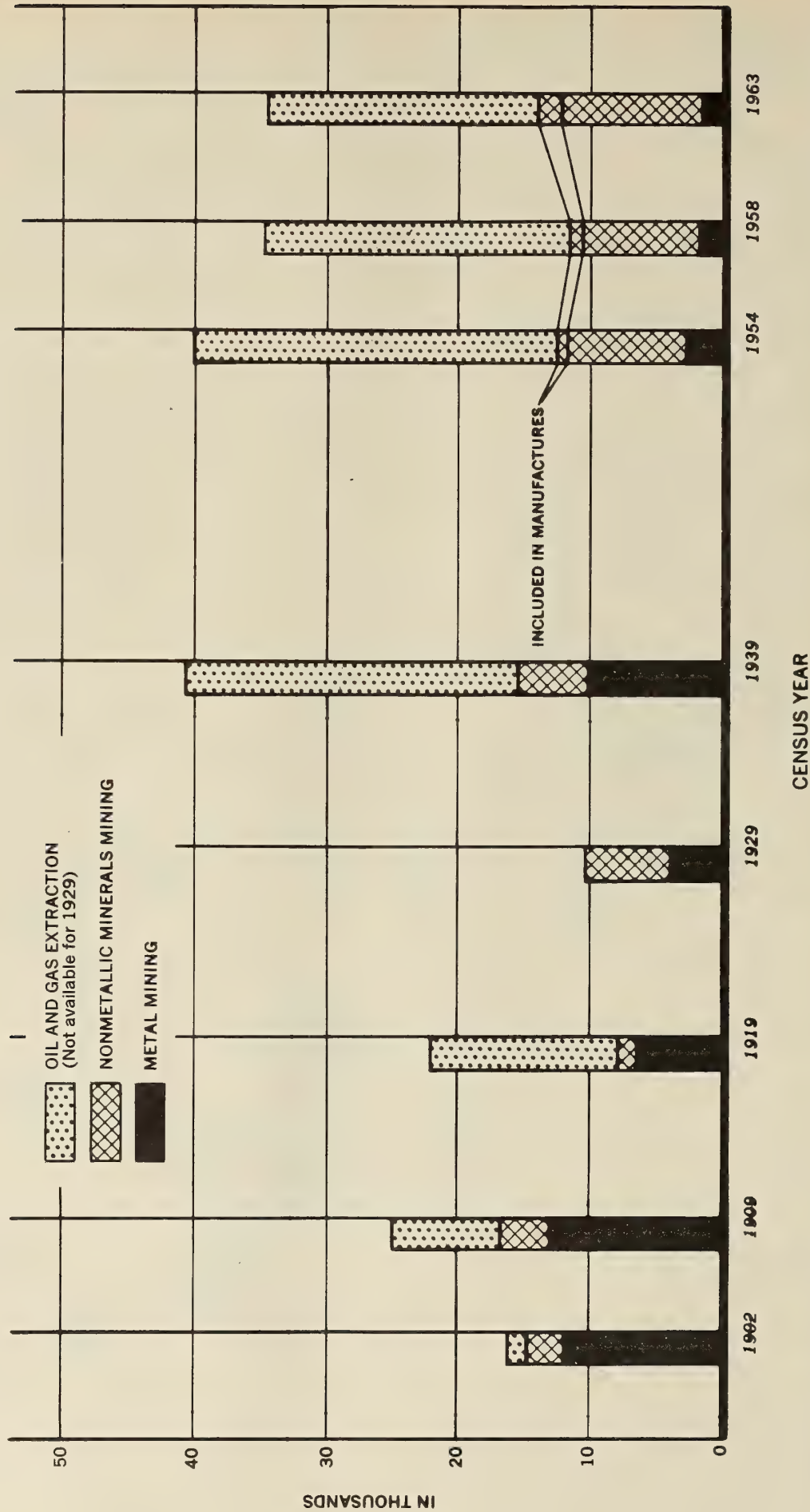
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

CALIFORNIA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|--------------------------------|--|--|---------------------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 1 734 | 264 | 32 941 | 242 185 | 24 338 | 48 781 | 167 470 | 1 253 604 | |
| 1958. | 1 658 | 266 | 33 792 | 211 773 | 23 474 | 48 097 | 130 038 | 1 225 488 | |
| 1954. | 2 190 | 314 | 39 366 | 203 144 | 29 423 | 59 159 | 139 397 | ¹ 1 315 181 | |
| INCLUDING OPERATIONS IN MANUFACTURES: ALL OPERATIONS: | | | | | | | | | |
| 1963. | 1 874 | 286 | 34 679 | 251 125 | 26 055 | 52 215 | 176 243 | 1 287 964 | |
| 1958. | 1 758 | 280 | 34 821 | 216 995 | 24 496 | 50 122 | 135 218 | 1 252 079 | |
| 1954 ² | 2 254 | 324 | 40 104 | 206 104 | 30 159 | 60 630 | 142 350 | ¹ 1 329 505 | |
| 1939 ³ | ⁴ 2 049 | (NA) | 40 675 | 76 947 | 33 561 | 68 546 | 57 347 | 318 401 | |
| 1919 ⁵ | 785 | (NA) | 22 255 | 37 644 | 19 747 | (NA) | 32 348 | 121 706 | |
| 1909 ⁵ | 2 205 | (NA) | 25 114 | 24 532 | 22 605 | (NA) | 21 153 | 32 768 | |
| 1902 ⁶ | ⁴ 2 048 | (NA) | 16 290 | 14 686 | ⁷ 14 539 | (NA) | 12 477 | 21 667 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 1 044 | 143 | 14 098 | 94 041 | 11 304 | 23 678 | 71 454 | 264 391 | |
| 1958. | 842 | 122 | 11 715 | 66 482 | 9 043 | 19 959 | 48 600 | 197 921 | |
| 1954 ² | 1 286 | 128 | 12 583 | 58 615 | 9 894 | 20 882 | 44 302 | ¹ 158 855 | |
| 1939 ³ | ⁴ 797 | (NA) | 15 460 | 26 250 | 13 792 | 32 279 | 21 973 | 60 295 | |
| 1929 ⁸ | 533 | (NA) | 10 465 | 17 166 | 9 224 | (NA) | 13 891 | 27 938 | |
| 1919 ⁵ | 369 | (NA) | 7 955 | 11 267 | 7 312 | (NA) | 9 790 | 14 670 | |
| 1909 ⁵ | 1 515 | (NA) | 16 998 | 15 496 | 15 663 | (NA) | 13 580 | 21 350 | |
| 1902 ⁹ | ⁴ 1 743 | (NA) | 14 763 | 13 120 | ⁷ 13 406 | (NA) | 11 378 | 18 612 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ¹⁰ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 203 910 | 149 906 | 132 045 | 56 360 | 1 569 895 | 225 930 | 37 068 | 1 523 | 3 568 |
| 1958. | 160 665 | ¹¹ 107 510 | 104 315 | 44 557 | 1 480 235 | 162 300 | 36 286 | 1 546 | (NA) |
| 1954. | 163 654 | ¹¹ 128 970 | 141 060 | 67 619 | ¹ 1 494 686 | 221 823 | 38 425 | 1 306 | 3 203 |
| INCLUDING OPERATIONS IN MANUFACTURES: ALL OPERATIONS: | | | | | | | | | |
| 1963. | ¹² 213 219 | 150 107 | ¹² 132 049 | ¹³ 56 399 | 1 613 743 | ¹³ 225 995 | ¹³ 37 068 | 1 523 | ¹³ 3 568 |
| 1958. | ¹² 166 833 | 107 511 | ¹² 104 319 | ¹³ 44 592 | 1 512 998 | ¹³ 162 336 | ¹³ 36 287 | 1 481 | (NA) |
| 1954 ² | ¹² 166 838 | ¹¹ 128 971 | ¹² 141 067 | ¹³ 67 642 | ¹ 1 512 186 | ¹³ 221 862 | ¹³ 38 427 | 1 274 | ¹³ 3 205 |
| 1939 ³ | 42 505 | (NA) | 20 702 | (NA) | 381 608 | (NA) | 29 002 | 864 | 1 373 |
| 1919 ⁵ | 39 755 | 876 | 1 433 | (NA) | 163 770 | (NA) | ¹⁴ 20 044 | 1 015 | 320 |
| 1909 ⁵ | 27 067 | 2 763 | 784 | (NA) | 63 382 | (NA) | (NA) | (NA) | 181 |
| 1902 ⁶ | 6 501 | (NA) | 702 | (NA) | 28 870 | (NA) | (NA) | (NA) | 76 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ¹² 78 151 | 924 | ¹² 8 101 | ¹³ 21 770 | 342 441 | ¹³ 30 896 | ¹³ 6 810 | 710 | ¹³ 1 126 |
| 1958. | ¹² 57 465 | 1 069 | ¹² 15 160 | ¹³ 9 849 | 251 548 | ¹³ 19 916 | ¹³ 6 422 | 710 | (NA) |
| 1954 ² | ¹² ¹³ 45 629 | ¹⁵ 5 010 | ¹² 7 736 | ¹³ 13 513 | ¹ 208 567 | ¹³ 22 201 | ¹³ 5 030 | 508 | ¹³ 696 |
| 1939 ³ | 18 004 | (NA) | 382 | (NA) | 78 681 | (NA) | 2 945 | 214 | 370 |
| 1929 ⁸ | 9 977 | (NA) | 731 | 1 964 | 38 646 | (NA) | 934 | 101 | 168 |
| 1919 ⁵ | 9 301 | 366 | 414 | (NA) | 24 751 | (NA) | ¹⁴ 346 | 47 | 221 |
| 1909 ⁵ | 9 579 | 2 759 | 384 | (NA) | 34 072 | (NA) | (NA) | (NA) | 98 |
| 1902 ⁹ | 5 006 | (NA) | 257 | (NA) | 23 875 | (NA) | (NA) | (NA) | 58 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operations was \$47 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for limestone and slate is not available.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and, for crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel mining operations and for stone quarries operated as parts of cement and lime establishments. The value of products of such establishments in 1929 was about \$9,669 million. See also footnote 8.

⁶Excludes data for sand, gravel, common clay, and shale mining operations. Includes data for 2 cement plants and for lime plants producing lime valued at \$396 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Excludes data for common clay and shale mining operations. In 1939, there were 28 such mines, with products valued at \$292 thousand.

⁹Includes data for nonproducing crude petroleum establishments, at which expenditures were about \$500 thousand. See also footnote 6.

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹¹Excludes the cost of natural gas processed at natural gas liquid plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹³Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁴Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to only 2 percent of the total kwh equivalent of energy used, but for "Excluding oil and gas extraction industries" in 1929, to 20 percent.

¹⁵Figures for minerals received for preparation for the Oil and Gas Extraction and Nonmetallic Minerals Mining Industries are included with those for supplies, purchases for resale, and purchased fuels and electricity.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|---------------------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 874 | 286 | 34 679 | 251 125 | 26 055 | 52 215 | 176 243 |
| | MINERAL INDUSTRIES | 1 734 | 264 | 32 941 | 242 185 | 24 338 | 48 781 | 167 470 |
| | INCLUDED IN MANUFACTURES | 140 | 22 | 1 738 | 8 940 | 1 717 | 3 434 | 8 773 |
| 10 | METAL MINING | 186 | 7 | 21 616 | 211 889 | 21 375 | 22 908 | 29 040 |
| 102 103 104 | COPPER, LEAD, ZINC, GOLD, AND SILVER ORES | 127 | 2 | 381 | 738 | 250 | 543 | 1 224 |
| 109 1092 | MISCELLANEOUS METAL ORES | 33 | 2 | 258 | 1 643 | 209 | 475 | 1 121 |
| | MERCURY ORES | 25 | 2 | 211 | 1 244 | 187 | 424 | 1 015 |
| 13 | OIL | 830 | 138 | 20 581 | 157 084 | 14 751 | 28 537 | 104 792 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . . | 492 | 45 | 13 155 | 104 600 | 8 342 | 16 294 | 60 848 |
| 1321 | NATURAL GAS LIQUIDS | 55 | 18 | 1 323 | 10 337 | 1 197 | 2 374 | 9 171 |
| 138 1381 1382 | OIL AND GAS FIELD SERVICES | 283 | 75 | 6 103 | 42 147 | 5 212 | 9 869 | 34 773 |
| | DRILLING OIL AND GAS WELLS | 87 | 40 | 2 852 | 21 677 | 2 558 | 4 989 | 19 165 |
| | OIL AND GAS FIELD EXPLORATION SERVICES | 15 | 3 | 691 | 3 834 | 572 | 877 | 2 577 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . . | 181 | 32 | 2 560 | 16 636 | 2 082 | 4 003 | 13 031 |
| 14 | NONMETALLIC MINERALS MINING | 857 | 141 | 12 482 | 82 152 | 9 929 | 20 770 | 62 411 |
| | MINERAL INDUSTRIES | 717 | 119 | 10 744 | 73 212 | 8 212 | 17 336 | 53 638 |
| | INCLUDED IN MANUFACTURES | 140 | 22 | 1 738 | 8 440 | 1 717 | 3 434 | 8 773 |
| 1411 | DIMENSION STONE | 50 | 3 | 277 | 1 359 | 246 | 486 | 1 150 |
| | MINERAL INDUSTRIES | 40 | - | 101 | 402 | 91 | 179 | 360 |
| | INCLUDED IN MANUFACTURES | 10 | 3 | 176 | 957 | 155 | 307 | 790 |
| | DIMENSION GRANITE | 10 | 3 | 203 | 1 086 | 180 | 375 | 904 |
| | DIMENSION STONE, N.E.C. | 34 | - | 52 | 222 | 47 | 84 | 200 |
| 1421 | CRUSHED AND BROKEN STONE | 177 | 30 | 2 274 | 14 541 | 2 033 | 4 290 | 12 896 |
| | MINERAL INDUSTRY | 156 | 19 | 1 516 | 10 054 | 1 275 | 2 774 | 8 409 |
| | INCLUDED IN MANUFACTURES | 21 | 11 | 1 758 | 24 487 | 1 758 | 1 516 | 4 487 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY | | | | | | | |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY | 45 | 14 | 11 122 | 16 467 | 11 072 | 2 229 | 6 111 |
| | MINERAL SUBINDUSTRY | 86 | 12 | 742 | 5 326 | 633 | 1 365 | 4 683 |
| 1441 | SAND AND GRAVEL | 453 | 81 | 5 215 | 33 367 | 4 411 | 9 239 | 27 634 |
| | MINERAL INDUSTRY | 374 | 80 | 4 766 | 31 328 | 3 962 | 8 340 | 25 595 |
| | INCLUDED IN MANUFACTURES | 79 | 1 | 1 449 | 12 039 | 1 449 | 899 | 2 039 |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY | 358 | 77 | 4 615 | 30 294 | 3 847 | 8 101 | 24 860 |
| | INDUSTRIAL AND SUBINDUSTRIES | 16 | 3 | 151 | 1 034 | 115 | 239 | 735 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 32 | 6 | 311 | 2 015 | 270 | 576 | 1 750 |
| 1452 | BENTONITE | 7 | 2 | 93 | 727 | 82 | 172 | 646 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C., MINERAL INDUSTRY | 32 | 6 | 351 | 1 692 | 336 | 683 | 1 576 |
| | INCLUDED IN MANUFACTURES | 11 | 2 | 98 | 675 | 83 | 175 | 559 |
| | | 21 | 4 | 1 253 | 11 017 | 1 253 | 508 | 1 017 |
| 147 | CHEMICAL AND FERTILIZER MINERALS . . | 23 | 5 | 2 777 | 20 905 | 1 614 | 3 409 | 11 145 |
| 1474 | POTASH, SODA, AND BORATE MINERALS . | 9 | 4 | 2 656 | 20 209 | 1 514 | 3 154 | 10 609 |
| 1481 | NONMETALLIC MINERALS SERVICES . . . | 6 | - | - | - | - | 76 | - |
| 149 | MISCELLANEOUS MINERALS, N.E.C., MINERAL INDUSTRIES | 87 | 8 | 1 227 | 8 212 | 962 | 1 982 | 6 182 |
| 1495 | PUMICE AND PUMICITE | 24 | 1 | 78 | 365 | 70 | 137 | 332 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS. | 1 287 964 | ³ 551 774 | ¹ 613 743 | ⁴ 225 995 | 34 821 | 1 252 079 |
| | MINERAL INDUSTRIES. | 1 253 604 | 542 221 | 1 569 895 | 225 930 | 33 792 | 1 225 488 |
| | INCLUDED IN MANUFACTURES. | 34 360 | ³ 9 553 | ¹ 43 848 | ⁴ 65 | ¹ 1 029 | 26 591 |
| 10 | METAL MINING. | ² 30 165 | ² 16 848 | ² 41 302 | ² 5 711 | 1 778 | 30 009 |
| 102 | COPPER, LEAD, ZINC, GOLD, AND SILVER ORES. | | | | | | |
| 103 | | 3 108 | 1 596 | 3 820 | 884 | 561 | 4 263 |
| 104 | | | | | | | |
| 109 | MISCELLANEOUS METAL ORES. | 2 341 | 1 151 | 3 226 | 266 | 420 | 3 973 |
| 1092 | MERCURY ORES. | 1 972 | 960 | 2 752 | 180 | 383 | 3 927 |
| 13 | OIL. | 1 023 573 | 442 828 | 1 271 302 | 195 099 | 23 106 | 1 054 158 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 885 899 | (D) | (D) | 182 020 | 16 535 | 946 540 |
| 1321 | NATURAL GAS LIQUIDS. | 63 929 | 156 675 | 217 710 | 2 894 | 1 801 | 59 553 |
| 138 | OIL AND GAS FIELD SERVICES. | 73 745 | (D) | (D) | 10 185 | 4 770 | 48 065 |
| 1381 | DRILLING OIL AND GAS WELLS. | 35 031 | 21 039 | 49 938 | 6 132 | (NA) | (NA) |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 11 473 | (D) | (D) | 1 430 | (NA) | (NA) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . | 27 241 | 10 899 | 35 517 | 2 623 | 1 917 | 19 168 |
| 14 | NONMETALLIC MINERALS MINING. | 234 226 | ³ 92 098 | ¹ 301 139 | ⁴ 25 185 | 9 937 | 167 912 |
| | MINERAL INDUSTRIES. | 199 866 | 82 545 | 257 291 | 25 120 | 8 908 | 141 321 |
| | INCLUDED IN MANUFACTURES. | 34 360 | ⁴ 9 553 | ¹ 43 848 | ⁴ 65 | ¹ 1 029 | 26 591 |
| 1411 | DIMENSION STONE. | 2 294 | 2 303 | 4 446 | 151 | 119 | 1 127 |
| | MINERAL INDUSTRY. | 956 | 530 | 1 400 | 86 | 51 | 604 |
| | INCLUDED IN MANUFACTURES. | 1 338 | 1 773 | 3 046 | 65 | 68 | 523 |
| | DIMENSION GRANITE. | 1 490 | 1 925 | 3 324 | 91 | (NA) | (NA) |
| | DIMENSION STONE, N.E.C.. | 657 | 344 | 960 | 41 | (NA) | (NA) |
| 1421 | CRUSHED AND BROKEN STONE. | 40 253 | ³ 16 122 | 52 642 | (NA) | 1 598 | 29 577 |
| | MINERAL INDUSTRY. | 24 558 | 12 033 | 32 858 | 3 733 | 1,066 | 14 794 |
| | INCLUDED IN MANUFACTURES. | 15 695 | ³ 4 089 | ¹ 19 784 | (NA) | ¹ 532 | 14 783 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 20 239 | ³ 4 884 | ¹ 24 650 | (NA) | ⁶ 260 | ⁶ 2 523 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY. | | | | | | |
| | MINERAL SUBINDUSTRY. | 11 312 | 6 879 | 16 270 | 1 921 | 555 | 7 875 |
| 1441 | SAND AND GRAVEL. | 96 624 | ³ 38 350 | 123 705 | (NA) | 4 053 | 69 686 |
| | MINERAL INDUSTRY. | 86 110 | ³ 35 933 | 110 774 | 11 269 | ³ 768 | 62 057 |
| | INCLUDED IN MANUFACTURES. | 10 514 | ³ 2 417 | ¹ 12 931 | (NA) | ³ 285 | 7 629 |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY. | 82 625 | 34 309 | 106 095 | 10 839 | ⁷ 3,645 | ⁷ 59 282 |
| | INDUSTRIAL AND SUBINDUSTRIES. . . . | 3 485 | 1 624 | 4 679 | 430 | ⁷ 123 | ⁷ 2 775 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRY. | 4 368 | 2 494 | 5 906 | 956 | 263 | 3 265 |
| 1452 | BENTONITE. | 843 | 585 | 1 093 | 335 | 65 | 871 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C.. . | 4 751 | 1 430 | 6 502 | (NA) | 165 | 1 723 |
| | MINERAL INDUSTRY. | 1 365 | 1 033 | 2 219 | 179 | 82 | 836 |
| | INCLUDED IN MANUFACTURES. | 3 386 | ³ 897 | ¹ 4 283 | (NA) | ¹ 83 | 887 |
| 147 | CHEMICAL AND FERTILIZER MINERALS. . . | 58 299 | 19 798 | 73 205 | 4 892 | 2 714 | 42 844 |
| 1474 | POTASH, SODA, AND BORATE MINERALS. . | 57 230 | 19 130 | 71 575 | 4 785 | 2 554 | 40 908 |
| 1481 | NONMETALLIC MINERALS SERVICES. . . . | 702 | 241 | 958 | 8 | 14 | 63 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 24 873 | 11 493 | 32 190 | 4 176 | 1 032 | 17 694 |
| 1495 | PUMICE AND PUMICITE. | 1 246 | 509 | 1 527 | 228 | 135 | 1 493 |

Note: See appendix A for an explanation of terms used.

Standard Note: - Represents zero. (D) Withheld to avoid disclosure. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Figures for lignite mining are included with those for Metal Mining.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excluding the cost of purchased machinery installed.⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operation in manufacturing establishments.⁵Represents the Glass sand, Molding sand, and Industrial sand, n.e.c., subindustries.⁶Excludes figures for crushed and broken limestone quarries in manufactures.⁷Figures for the industrial sand, n.e.c., subindustries are included with those for the Construction sand and gravel subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 542 221 | 203 910 | 149 906 | 132 045 | 56 360 | 225 930 | 149 817 | 76 113 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING. | 16 848 | 11 400 | 60 | 1 087 | 4 301 | 5 711 | 934 | 4 787 | (X) | (X) | (X) | (X) |
| 12 | LIGNITE MINING. | | | | | | | | | | | | |
| 13 | OIL AND GAS EXTRACTION. . . . | 442 828 | 135 068 | 149 183 | 123 948 | 34 629 | 195 099 | 147 729 | 47 370 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | (D) | (D) | — | 118 289 | 22 810 | 182 020 | 147 566 | 34 454 | (X) | (D) | (X) | (D) |
| 1321 | NATURAL GAS LIQUIDS | 156 675 | 5 319 | 149 183 | 1 077 | 1 096 | 2 894 | — | 2 894 | ³ 26 308 | ³ 70 118 | — | — |
| 138 | OIL AND GAS FIELD SERVICES. (D) | (D) | (D) | — | 4 582 | 10 723 | 10 185 | 163 | 10 022 | (X) | (X) | (X) | (X) |
| 1381 | DRILLING OIL AND GAS WELLS. | 21 039 | 11 708 | — | 2 842 | 6 489 | 6 132 | 30 | 6 102 | (X) | ⁴ 46 895 | (X) | (⁴) |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. . . . | (D) | (D) | — | 58 | 1 960 | 1 430 | — | 1 430 | (X) | ⁴ 13 679 | (X) | (⁴) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 10 899 | 6 943 | — | 1 682 | 2 274 | 2 623 | 133 | 2 490 | (X) | ⁴ 38 268 | (X) | (⁴) |
| 14 | NONMETALLIC MINERALS MINING . | 82 545 | 57 442 | 663 | 7 010 | 17 430 | 25 120 | 1 164 | 23 956 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE. . | 12 033 | 8 178 | 438 | 810 | 2 607 | 3 733 | 81 | 3 652 | 18 373 | 30 282 | ⁵ 15 300 | ⁵ 20 153 |
| | CRUSHED AND BROKEN STONE, N.E.C. | 6 879 | 4 103 | 328 | 606 | 1 842 | 1 921 | 35 | 1 886 | 9 931 | 14 193 | ⁵ 1 868 | ⁵ 2 612 |
| 1441 | SAND AND GRAVEL | 35 933 | 24 664 | 135 | 2 572 | 8 562 | 11 269 | 160 | 11 109 | 89 475 | ⁵ 614 656 | ⁵ 11 055 | (⁶) |
| | CONSTRUCTION SAND AND GRAVEL | 34 309 | 23 456 | 135 | 2 556 | 8 162 | 10 839 | 160 | 10 679 | 88 260 | ⁶ 7107 359 | ⁷ 9 061 | (⁶) |
| 145 | CLAY AND RELATED MINERALS . | 2 494 | 1 369 | — | 447 | 678 | 956 | 138 | 818 | (X) | (X) | (X) | (X) |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 19 798 | 16 264 | — | 719 | 2 815 | 4 892 | 549 | 4 343 | (X) | (X) | (X) | (X) |
| 1474 | POTASH, SODA, AND BORATE MINERALS | 19 130 | 15 630 | — | 685 | 2 815 | 4 785 | 530 | 4 255 | 6 870 | 186 524 | — | — |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 11 493 | 6 437 | 90 | 2 260 | 2 706 | 4 176 | 233 | 3 943 | (X) | (X) | (X) | (X) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents net shipments of natural gas liquids. Quantity figures are in thousands of barrels.⁴Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁵Includes figures for minerals produced and used in the same establishment in making manufactured products, except for stone, such as products used in making lime. The value of such included products was estimated.⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.⁷Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Separately operated preparation plants | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 440 | 1 299 | 657 | 32 | 160 | 465 | 568 | 15 | 482 | 71 | 66 | 149 |
| | NUMBER OF EMPLOYEES..... | 223 907 | 223 606 | 11 704 | 118 | 439 | 11 147 | 210 414 | 515 | 27 709 | 2 190 | 1 488 | 301 |
| | VALUE ADDED IN MINING.....\$1,000.. | 21 178 774 | 21 178 967 | 896 046 | 1 691 | 7 414 | 886 941 | 2217 455 | 5 428 | 2171 969 | 40 058 | 65 466 | (³) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 181 | 99 | 32 | 16 | 15 | 1 | 67 | 11 | 52 | 4 | - | 82 |
| | NUMBER OF EMPLOYEES..... | 21 473 | 21 294 | 49 | (D) | 16 | (D) | 21 245 | 396 | 2684 | 165 | - | 179 |
| | VALUE ADDED IN MINING.....\$1,000.. | 230 067 | 229 960 | 833 | (D) | 411 | (D) | 229 127 | 4 708 | 223 013 | 1 406 | - | 107 |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 547 | 508 | 454 | - | - | 454 | - | - | - | - | 54 | 39 |
| | NUMBER OF EMPLOYEES..... | 12 449 | 12 404 | (D) | - | - | (D) | - | - | - | - | (D) | 45 |
| | VALUE ADDED IN MINING.....\$1,000.. | 949 699 | 949 970 | (D) | - | - | (D) | - | - | - | - | (D) | (³) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 492 | 454 | 454 | - | - | 454 | - | - | - | - | - | 38 |
| | NUMBER OF EMPLOYEES..... | 11 126 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 885 899 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 55 | 53 | - | - | - | - | - | - | - | - | 54 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 323 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 63 929 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 711 | 683 | 170 | 15 | 145 | 10 | 501 | 4 | 430 | 67 | 12 | 28 |
| | NUMBER OF EMPLOYEES..... | 9 979 | 9 902 | (D) | (D) | 417 | (D) | 9 169 | 119 | 7 025 | 2 025 | (D) | 77 |
| | VALUE ADDED IN MINING.....\$1,000.. | 198 987 | 199 016 | (D) | (D) | 6 982 | (D) | 188 328 | 720 | 148 956 | 38 652 | (D) | (³) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 156 | 152 | 19 | - | 19 | - | 130 | 1 | 129 | - | 3 | 4 |
| | NUMBER OF EMPLOYEES..... | 1 508 | 1 503 | 142 | - | 142 | - | 1 349 | (D) | (D) | - | 12 | 5 |
| | VALUE ADDED IN MINING.....\$1,000.. | 24 509 | 24 515 | 3 161 | - | 3 161 | - | 21 145 | (D) | (D) | - | 209 | (³) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 374 | 365 | 52 | - | 44 | 8 | 304 | - | 240 | 64 | 9 | 9 |
| | NUMBER OF EMPLOYEES..... | 4 715 | 4 676 | (D) | - | (D) | (D) | 4 390 | - | 3 661 | 729 | (D) | 39 |
| | VALUE ADDED IN MINING.....\$1,000.. | 85 985 | 86 000 | (D) | - | (D) | (D) | 82 307 | - | 71 449 | 10 858 | (D) | (³) |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 32 | 21 | 1 | 19 | 1 | 11 | 1 | 10 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 311 | 311 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 365 | 4 365 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 23 | 15 | 7 | - | 7 | - | 8 | 2 | 3 | 3 | - | 8 |
| | NUMBER OF EMPLOYEES..... | 2 141 | 2 115 | 4 | - | 4 | - | 2 111 | (D) | (D) | 1 296 | - | 26 |
| | VALUE ADDED IN MINING.....\$1,000.. | 58 299 | 58 321 | 107 | - | 107 | - | 58 214 | (D) | (D) | 27 794 | - | (³) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 87 | 83 | 36 | 14 | 21 | 1 | 47 | - | 47 | - | - | 4 |
| | NUMBER OF EMPLOYEES..... | 1 203 | 1 201 | 109 | (D) | 39 | (D) | 1 092 | - | 1 092 | - | - | 2 |
| | VALUE ADDED IN MINING.....\$1,000.. | 24 873 | 24 850 | 1 742 | (D) | 549 | (D) | 23 108 | - | 23 108 | - | - | 23 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for metal mining services and lignite mining establishments.³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|---|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATION. | 1 874 | 286 | 34 679 | 251 125 | 26 055 | 52 215 | 176 243 | 1 287 964 | 551 774 | 1 613 743 | 225 995 | 34 821 | 1 252 079 |
| | MINERAL INDUSTRIES. | 1 734 | 264 | 32 941 | 242 185 | 24 338 | 48 781 | 167 470 | 1 253 604 | 542 221 | 1 569 895 | 225 930 | 33 792 | 1 225 488 |
| | INCLUDED IN MANUFACTURES ² | 140 | 22 | 1 738 | 8 940 | 1 717 | 3 434 | 8 773 | 34 360 | 9 553 | 43 848 | 65 | 1 029 | 26 591 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALAMEDA COUNTY, TOTAL. | 33 | 10 | 1 067 | 9 357 | 522 | 1 165 | 3 959 | 10 920 | 4 211 | 14 051 | 1 080 | 489 | 8 586 |
| 14 | NONMETALLIC MINERALS MINING. | 24 | 9 | 633 | 4 589 | 515 | 1 151 | 3 897 | 10 830 | 4 187 | 14 001 | 1 016 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE. | 8 | 1 | 72 | 489 | 54 | 91 | 384 | 1 021 | 372 | 1 105 | 288 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 12 | 8 | 532 | 3 958 | 437 | 1 014 | 3 391 | 9 571 | 3 535 | 12 424 | 682 | 418 | 7 895 |
| | AMADOR COUNTY, TOTAL. | 11 | 1 | 56 | 361 | 49 | 107 | 309 | 1 442 | 803 | 1 936 | 309 | (NA) | (NA) |
| | BUTTE COUNTY, TOTAL. | 35 | - | 70 | 370 | 55 | 119 | 272 | 2 340 | 1 249 | 3 274 | 315 | 86 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 14 | - | 24 | 189 | 16 | 31 | 112 | 1 871 | 974 | 2 597 | 248 | 25 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 7 | - | 17 | 141 | 9 | 18 | 64 | 1 740 | 923 | 2 423 | 240 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 14 | - | 41 | 154 | 35 | 77 | 136 | 455 | 238 | 660 | 33 | (NA) | (NA) |
| | CALAVERAS COUNTY, TOTAL. | 11 | 1 | 187 | 1 176 | 159 | 306 | 985 | 655 | 1 777 | 2 027 | 405 | 44 | 360 |
| | COLUSA COUNTY, TOTAL. | 28 | - | 31 | 251 | 29 | 62 | 230 | 4 811 | 2 109 | 5 617 | 1 303 | 52 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 28 | - | 31 | 251 | 29 | 62 | 230 | 4 811 | 2 109 | 5 617 | 1 303 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 11 | - | 4 | 30 | 3 | 6 | 22 | 4 121 | 1 621 | 4 468 | 1 274 | 1 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 17 | - | 27 | 221 | 26 | 56 | 208 | 690 | 488 | 1 149 | 29 | (NA) | (NA) |
| | CONTRA COSTA COUNTY, TOTAL. | 44 | 5 | 297 | 2 012 | 230 | 504 | 1 672 | 10 636 | 4 977 | 9 296 | 6 317 | 169 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 28 | 1 | 72 | 564 | 51 | 119 | 451 | 7 432 | 2 794 | 4 507 | 5 719 | 169 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 11 | - | 3 | 24 | 3 | 4 | 17 | 6 203 | 2 123 | 2 674 | 5 652 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 17 | 1 | 69 | 540 | 48 | 115 | 434 | 1 229 | 671 | 1 833 | 67 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE. | 9 | 4 | 188 | 1 301 | 154 | 341 | 1 101 | 2 865 | 2 020 | 4 337 | 548 | (NA) | (NA) |
| | EL DORADO COUNTY, TOTAL. | 12 | 1 | 117 | 556 | 112 | 205 | 530 | 908 | 244 | 1 115 | 37 | 107 | 708 |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE. | 4 | 1 | 112 | 534 | 107 | 197 | 511 | 847 | 219 | 1 053 | 13 | (NA) | (NA) |
| | FRESNO COUNTY, TOTAL. | 92 | 17 | 1 104 | 8 048 | 965 | 1 901 | 6 727 | 69 451 | 25 568 | 83 135 | 11 884 | 1 253 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 69 | 13 | 866 | 6 331 | 751 | 1 429 | 5 266 | 66 685 | 22 700 | 78 946 | 10 439 | 1 152 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 38 | 6 | 538 | 4 235 | 449 | 872 | 3 453 | 62 761 | 18 014 | 70 753 | 10 022 | 621 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 13 | 3 | 179 | 1 252 | 164 | 350 | 1 098 | 2 196 | 1 474 | 3 448 | 222 | 58 | 1 013 |
| 149 | MISC. NONMETALLIC MINERALS. | 4 | 1 | 42 | 369 | 37 | 96 | 305 | 562 | 1 080 | 721 | 921 | (NA) | (NA) |
| | GLENN COUNTY, TOTAL. | 38 | - | 36 | 230 | 29 | 61 | 182 | 5 279 | 1 498 | 6 046 | 731 | 175 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 32 | - | 30 | 212 | 24 | 50 | 167 | 5 148 | 1 421 | 5 857 | 712 | 173 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 19 | - | 15 | 108 | 9 | 20 | 67 | 4 718 | 1 212 | 5 221 | 709 | 24 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 13 | - | 15 | 104 | 15 | 30 | 100 | 430 | 209 | 636 | 3 | 149 | (NA) |
| | HUMBOLDT COUNTY, TOTAL. | 17 | - | 21 | 83 | 19 | 39 | 77 | 1 296 | 934 | 1 899 | 331 | 28 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 4 | - | 4 | 23 | 3 | 5 | 18 | 429 | 480 | 706 | 203 | (NA) | (NA) |
| | IMPERIAL COUNTY, TOTAL. | 19 | 1 | 71 | 381 | 57 | 100 | 342 | 422 | 1 002 | 763 | 661 | 35 | (NA) |
| | INYO COUNTY, TOTAL. | 39 | 2 | 540 | 3 510 | 475 | 930 | 3 029 | 6 979 | 5 034 | 11 025 | 988 | 404 | 5 637 |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 149 | MISC. NONMETALLIC MINERALS. | 12 | - | 45 | 328 | 38 | 82 | 235 | 925 | 203 | 1 010 | 118 | (NA) | (NA) |
| | KERN COUNTY, TOTAL. | 382 | 67 | 7 340 | 53 995 | 5 802 | 11 458 | 41 456 | 313 069 | 157 936 | 402 644 | 68 361 | 7 509 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 341 | 63 | 6 266 | 46 434 | 5 044 | 9 947 | 36 376 | 279 785 | 150 472 | 363 713 | 66 544 | 6 604 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 190 | 26 | 4 123 | 31 304 | 3 182 | 6 218 | 23 574 | 245 738 | 72 264 | 257 097 | 60 905 | 4 848 | (NA) |
| 132 | NATURAL GAS LIQUIDS. | 15 | 7 | 483 | 3 714 | 415 | 807 | 3 098 | 12 692 | 66 420 | 77 424 | 1 688 | 499 | 14 360 |
| 138 | OIL AND GAS FIELD SERVICES. | 136 | 30 | 1 660 | 11 416 | 1 447 | 2 922 | 9 704 | 21 355 | 11 788 | 29 192 | 3 951 | 1 257 | (NA) |
| | KINGS COUNTY, TOTAL. | 38 | 5 | 399 | 3 193 | 360 | 712 | 2 868 | 11 624 | 17 337 | 27 937 | 1 024 | 328 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 35 | 5 | 392 | 3 163 | 356 | 705 | 2 856 | 11 609 | 17 333 | 27 919 | 1 023 | 311 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 16 | 1 | 66 | 557 | 53 | 99 | 420 | 7 403 | 3 139 | 9 687 | 855 | 179 | (NA) |
| | LOS ANGELES COUNTY, TOTAL. | 410 | 77 | 8 531 | 67 494 | 4 908 | 10 047 | 34 033 | 282 571 | 100 543 | 342 157 | 40 957 | 10 817 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 337 | 58 | 5 261 | 39 700 | 3 951 | 8 053 | 28 077 | 256 367 | 90 197 | 308 511 | 38 053 | 8 878 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 203 | 28 | 3 274 | 24 749 | 2 299 | 4 534 | 16 123 | 222 161 | 54 667 | 243 825 | 33 003 | 5 802 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--|-------------------|----------------------|---|----------------------|--------------------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total (number) | With 20 employ- ees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | | | | | |
| 132 | NATURAL GAS LIQUIDS | 18 | 4 | 301 | 2 356 | 284 | 590 | 2 184 | 15 437 | 25 942 | 40 856 | 523 | 457 | 16 943 |
| 138 | OIL AND GAS FIELD SERVICES | 116 | 26 | 1 686 | 12 595 | 1 368 | 2 929 | 9 770 | 18 769 | 9 588 | 23 830 | 4 527 | 2 619 | - |
| 14 | NONMETALLIC MINERALS MINING | 64 | 19 | 1 111 | 7 276 | 936 | 1 963 | 5 904 | 26 143 | 10 310 | 33 604 | 2 849 | (NA) | - |
| 142 | CRUSHED AND BROKEN STONE | 13 | 1 | 120 | 829 | 109 | 233 | 766 | 3 099 | 1 011 | 3 979 | 131 | 114 | 1 560 |
| 144 | SAND AND GRAVEL | 36 | 18 | 947 | 6 199 | 790 | 1 657 | 4 956 | 22 007 | 8 764 | 28 077 | 2 694 | 1 067 | 17 993 |
| | MADERA COUNTY, TOTAL | 15 | - | 40 | 240 | 32 | 63 | 205 | 1 012 | 567 | 1 286 | 293 | 40 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 7 | - | 2 | 16 | 1 | 2 | 6 | 621 | 240 | 735 | 126 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 3 | - | 2 | 16 | 1 | 2 | 6 | 515 | 170 | 568 | 117 | (NA) | (NA) |
| | MARIN COUNTY, TOTAL | 14 | 3 | 143 | 1 014 | 119 | 254 | 913 | 2 344 | 1 010 | 2 976 | 378 | 125 | 1 490 |
| 14 | NONMETALLIC MINERALS MINING | 9 | 3 | 141 | 1 009 | 117 | 250 | 908 | 2 281 | 991 | 2 945 | 327 | (NA) | (NA) |
| | MENDOCINO COUNTY, TOTAL | 8 | - | 20 | 171 | 6 | 13 | 25 | 390 | 198 | 528 | 60 | (NA) | (NA) |
| | MERCED COUNTY, TOTAL | 16 | 2 | 92 | 577 | 75 | 157 | 528 | 1 524 | 892 | 2 110 | 306 | 42 | 380 |
| 14 | NONMETALLIC MINERALS MINING | 10 | 2 | 92 | 577 | 75 | 157 | 528 | 1 248 | 750 | 1 726 | 272 | (NA) | (NA) |
| | MONTEREY COUNTY, TOTAL | 33 | 5 | 309 | 2 236 | 256 | 537 | 1 824 | 24 782 | 7 013 | 27 885 | 3 910 | 328 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 19 | 2 | 149 | 1 212 | 125 | 261 | 1 010 | 21 756 | 5 265 | 25 016 | 2 005 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 8 | 2 | 115 | 902 | 93 | 189 | 718 | 21 172 | 4 953 | 24 145 | 1 980 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | - | 34 | 310 | 32 | 72 | 292 | 584 | 312 | 871 | 25 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 14 | 3 | 160 | 1 024 | 131 | 276 | 814 | 3 026 | 1 748 | 2 869 | 1 905 | (NA) | (NA) |
| | ORANGE COUNTY, TOTAL | 155 | 23 | 2 275 | 17 690 | 1 564 | 3 124 | 11 749 | 78 337 | 34 395 | 92 676 | 20 056 | 2 164 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 124 | 17 | 1 541 | 11 831 | 1 297 | 2 552 | 10 045 | 70 165 | 31 962 | 82 801 | 19 326 | 1 909 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 76 | 7 | 976 | 7 550 | 804 | 1 520 | 6 248 | 60 702 | 18 160 | 59 999 | 18 863 | 1 399 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 6 | 2 | 98 | 791 | 88 | 186 | 703 | 4 994 | 11 628 | 16 532 | 90 | 167 | 6 017 |
| 138 | OIL AND GAS FIELD SERVICES | 42 | 8 | 467 | 3 490 | 405 | 846 | 3 094 | 4 469 | 2 174 | 6 270 | 373 | 343 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | 22 | 4 | 226 | 1 665 | 191 | 410 | 1 352 | 7 492 | 1 885 | 8 783 | 594 | 191 | 4 152 |
| | PLACER COUNTY, TOTAL | 12 | - | 65 | 340 | 55 | 109 | 275 | 846 | 384 | 1 130 | 100 | (NA) | (NA) |
| | RIVERSIDE COUNTY, TOTAL | 39 | 6 | 879 | 6 229 | 802 | 1 714 | 5 723 | 25 722 | 13 424 | 34 997 | 4 149 | 487 | 1 994 |
| | SACRAMENTO COUNTY, TOTAL | 42 | 5 | 384 | 2 465 | 312 | 661 | 2 019 | 20 301 | 6 789 | 25 453 | 1 637 | 386 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 24 | 1 | 61 | 461 | 36 | 70 | 262 | 15 394 | 4 826 | 19 293 | 927 | 87 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 10 | 1 | 47 | 370 | 24 | 49 | 184 | 14 944 | 4 690 | 18 756 | 878 | 73 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 14 | - | 14 | 91 | 12 | 21 | 78 | 450 | 136 | 537 | 49 | (NA) | (NA) |
| | SAN BENITO COUNTY, TOTAL | 25 | 3 | 300 | 1 982 | 250 | 543 | 1 548 | 5 291 | 1 800 | 6 056 | 1 035 | 305 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 6 | - | 13 | 95 | 11 | 28 | 86 | 664 | 181 | 693 | 152 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | 2 | 124 | 884 | 91 | 172 | 624 | 3 159 | 864 | 3 209 | 814 | (NA) | (NA) |
| | SAN BERNARDINO COUNTY, TOTAL | 78 | 9 | 1 809 | 12 601 | 1 403 | 3 077 | 9 507 | 35 676 | 15 178 | 46 739 | 4 115 | 1 706 | (NA) |
| 10 | METAL MINING | 12 | - | 41 | 310 | 31 | 71 | 206 | 820 | 338 | 892 | 266 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 62 | 9 | 1 767 | 12 286 | 1 371 | 3 004 | 9 296 | 34 694 | 14 820 | 45 665 | 3 849 | 1 609 | 14 694 |
| 142 | CRUSHED AND BROKEN STONE | 15 | - | 67 | 373 | 50 | 131 | 348 | 824 | 345 | 1 095 | 74 | (NA) | (NA) |
| 145 | CLAY AND RELATED MINERALS | 3 | 1 | 53 | 324 | 46 | 100 | 289 | 511 | 217 | 596 | 132 | (NA) | (NA) |
| 149 | MISC. NONMETALLIC MINERALS | 15 | - | 50 | 268 | 43 | 73 | 256 | 683 | 384 | 969 | 98 | (NA) | (NA) |
| | SAN DIEGO COUNTY, TOTAL | 49 | 8 | 579 | 3 588 | 467 | 905 | 2 842 | 7 673 | 3 594 | 10 004 | 1 263 | 582 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 16 | - | 48 | 305 | 40 | 96 | 287 | 836 | 424 | 1 080 | 180 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 26 | 8 | 457 | 2 858 | 399 | 776 | 2 483 | 6 611 | 2 887 | 8 436 | 1 062 | 496 | 6 997 |
| | SAN FRANCISCO COUNTY, TOTAL | 16 | 1 | 311 | 3 232 | 40 | 74 | 206 | 528 | 351 | 820 | 59 | (NA) | (NA) |
| | SAN JOAQUIN COUNTY, TOTAL | 46 | 5 | 276 | 1 945 | 246 | 484 | 1 658 | 11 082 | 6 128 | 15 813 | 1 397 | 85 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 18 | - | 38 | 336 | 25 | 52 | 234 | 8 502 | 5 020 | 12 425 | 1 097 | 7 | (NA) |
| | SAN LUIS OBISPO COUNTY, TOTAL | 37 | 1 | 65 | 437 | 56 | 113 | 365 | 4 773 | 3 519 | 7 640 | 652 | 166 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 12 | - | 22 | 131 | 17 | 30 | 93 | 3 658 | 618 | 3 747 | 529 | 53 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|--|-----------------------------|---------------------------|---------------|---------|--|-----------|--------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 14 | SAN MATEO COUNTY, TOTAL | 18 | 1 | 101 | 967 | 92 | 208 | 822 | 1 350 | 1 403 | 2 430 | 323 | 77 | (NA) |
| | NONMETALLIC MINERALS MINING. | 10 | 1 | 96 | 946 | 87 | 199 | 803 | 1 335 | 1 163 | 2 229 | 269 | (NA) | (NA) |
| | SANTA BARBARA COUNTY, TOTAL | 69 | 15 | 1 558 | 10 631 | 1 215 | 2 413 | 7 859 | 77 436 | 39 883 | 110 771 | 6 548 | 1 427 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 24 | 4 | 464 | 3 596 | 309 | 610 | 2 236 | 50 208 | 8 623 | 53 501 | 5 330 | 576 | (NA) |
| 132 | NATURAL GAS LIQUIDS. | 6 | 1 | 89 | 663 | 78 | 151 | 565 | 5 811 | 24 149 | 29 810 | 150 | (NA) | (NA) |
| | SANTA CLARA COUNTY, TOTAL | 30 | 4 | 249 | 1 626 | 200 | 420 | 1 250 | 4 078 | 1 327 | 4 771 | 634 | 121 | 2 399 |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 11 | 3 | 99 | 650 | 77 | 161 | 437 | 2 044 | 410 | 2 349 | 105 | 66 | 1 402 |
| | SANTA CRUZ COUNTY, TOTAL | 15 | 1 | 111 | 827 | 70 | 162 | 484 | 1 907 | 741 | 2 322 | 326 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 8 | 1 | 58 | 464 | 36 | 82 | 279 | 1 539 | 334 | 1 669 | 204 | (NA) | (NA) |
| | SHASTA COUNTY, TOTAL | 15 | 2 | 68 | 279 | 61 | 125 | 254 | 1 150 | 327 | 1 290 | 187 | 109 | 1 254 |
| | SOLANO COUNTY, TOTAL | 41 | 3 | 160 | 1 373 | 127 | 306 | 1 082 | 15 700 | 4 477 | 18 176 | 2 001 | 110 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 33 | 3 | 149 | 1 305 | 116 | 286 | 1 014 | 15 486 | 4 441 | 17 937 | 1 990 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 15 | 1 | 63 | 468 | 46 | 89 | 325 | 13 905 | 3 628 | 15 686 | 1 847 | 50 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 18 | 2 | 86 | 837 | 70 | 197 | 689 | 1 581 | 813 | 2 251 | 143 | (NA) | (NA) |
| | SONOMA COUNTY, TOTAL | 28 | 4 | 206 | 1 467 | 134 | 281 | 1 027 | 3 031 | 884 | 3 574 | 341 | 233 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 21 | 4 | 197 | 1 457 | 126 | 265 | 1 017 | 2 767 | 781 | 3 292 | 256 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 6 | 1 | 33 | 218 | 25 | 53 | 218 | 321 | 212 | 510 | 23 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 11 | 3 | 157 | 1 218 | 95 | 201 | 780 | 2 384 | 552 | 2 715 | 221 | 126 | 1 432 |
| | STANISLAUS COUNTY, TOTAL | 25 | 2 | 114 | 830 | 46 | 107 | 274 | 1 247 | 724 | 1 489 | 482 | 61 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 15 | 2 | 113 | 822 | 45 | 106 | 271 | 738 | 503 | 1 017 | 224 | (NA) | (NA) |
| | SUTTER COUNTY, TOTAL | 24 | 1 | 52 | 374 | 35 | 82 | 271 | 5 233 | 2 467 | 5 490 | 2 210 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 9 | - | 12 | 109 | 8 | 13 | 50 | 4 689 | 2 120 | 4 640 | 2 169 | (NA) | (NA) |
| | TEHAMA COUNTY, TOTAL | 20 | - | 18 | 98 | 14 | 31 | 74 | 587 | 304 | 726 | 165 | 26 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 14 | - | 5 | 40 | 3 | 8 | 23 | 515 | 244 | 635 | 124 | (NA) | (NA) |
| | TULARE COUNTY, TOTAL | 16 | 1 | 61 | 300 | 52 | 90 | 247 | 1 514 | 887 | 2 135 | 266 | 135 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 6 | - | 7 | 52 | 4 | 8 | 22 | 1 048 | 574 | 1 451 | 171 | 4 | (NA) |
| | TUOLUMNE COUNTY, TOTAL | 10 | 1 | 53 | 169 | 49 | 99 | 155 | 450 | 202 | 623 | 29 | (NA) | (NA) |
| | VENTURA COUNTY, TOTAL | 140 | 28 | 2 094 | 15 571 | 1 614 | 3 223 | 11 402 | 113 186 | 41 718 | 136 651 | 18 253 | 2 991 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 121 | 24 | 1 878 | 14 151 | 1 417 | 2 811 | 10 138 | 109 710 | 38 698 | 131 333 | 17 075 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 55 | 10 | 1 082 | 8 379 | 737 | 1 485 | 5 352 | 82 224 | 25 389 | 91 666 | 15 947 | 1 498 | (NA) |
| 132 | NATURAL GAS LIQUIDS. | 6 | 3 | 151 | 1 113 | 133 | 266 | 939 | 20 413 | 9 098 | 29 118 | 393 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 60 | 11 | 645 | 4 659 | 547 | 1 060 | 3 847 | 7 073 | 4 211 | 10 549 | 735 | 1 137 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 19 | 4 | 216 | 1 420 | 197 | 412 | 1 264 | 3 476 | 3 020 | 5 318 | 1 178 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 11 | 2 | 144 | 792 | 134 | 268 | 718 | 2 711 | 2 454 | 4 189 | 976 | (NA) | (NA) |
| | YOLO COUNTY, TOTAL | 39 | 1 | 122 | 790 | 106 | 229 | 660 | 2 969 | 1 270 | 3 531 | 708 | 337 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 32 | - | 32 | 216 | 23 | 59 | 131 | 1 348 | 656 | 1 522 | 482 | 245 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 12 | - | 2 | 16 | 1 | 2 | 3 | 793 | 314 | 692 | 415 | 245 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 20 | - | 30 | 200 | 22 | 57 | 128 | 555 | 342 | 830 | 67 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 1 | 90 | 574 | 83 | 170 | 529 | 1 621 | 614 | 2 009 | 226 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 7 | 1 | 90 | 574 | 83 | 170 | 529 | 1 621 | 614 | 2 009 | 226 | 92 | (NA) |
| | OFFSHORE, TOTAL | 20 | 3 | 469 | 3 424 | 410 | 673 | 2 804 | 83 442 | 23 187 | 87 261 | 19 368 | 648 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 20 | 3 | 469 | 3 424 | 410 | 673 | 2 804 | 83 442 | 23 187 | 87 261 | 19 368 | 648 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 8 | 1 | 93 | 848 | 82 | 154 | 734 | 76 317 | 19 441 | 77 085 | 18 673 | 454 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 12 | 2 | 376 | 2 576 | 328 | 519 | 2 070 | 7 125 | 3 746 | 10 176 | 695 | 194 | (NA) |
| | UNDISTRIBUTED, TOTAL | 51 | 5 | 455 | 1 929 | 417 | 587 | 1 614 | 4 698 | 1 823 | 6 191 | 330 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 51 | 5 | 455 | 1 929 | 417 | 587 | 1 614 | 4 698 | 1 823 | 6 191 | 330 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 18 | 1 | 58 | 335 | 36 | 63 | 147 | 1 490 | 554 | 1 874 | 170 | 215 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 33 | 4 | 397 | 1 594 | 381 | 524 | 1 467 | 3 208 | 1 269 | 4 317 | 160 | 583 | (NA) |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

Footnotes for Table 3.—California

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| MARIPOSA COUNTY: TOTAL | 12 | 11 | 1 | - | - | - | 7 | - | - | 1 | - | - | - | - | - | - | - | - | 2 | 1 | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 11 | 1 | - | - | - | 7 | - | - | 1 | - | - | - | - | - | - | - | - | 2 | 1 | - | - | 1 | - | - | - | - | - | - | - |
| MENDOCINO COUNTY: TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | 5 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | 5 | 1 | - | - | - | - | - | - |
| MERCED COUNTY: TOTAL | 17 | 16 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - | - | 3 | - | 1 | - | 9 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 14 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - | - | 3 | - | 1 | - | 7 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| MODOC COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | 3 |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | 3 |
| MONO COUNTY: TOTAL | 7 | 7 | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 3 |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| MONTEREY COUNTY: TOTAL | 35 | 33 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 11 | - | - | 2 | 1 | 10 | 1 | 1 | - | - | - | - | 1 |
| 0-19 EMPLOYEES | 30 | 28 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 11 | - | - | 2 | 1 | 8 | 1 | - | - | - | - | - | 1 |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 2 | 2 | - | 1 | - | - | - | - | - |
| NAPA COUNTY: TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | 1 | - | - | - | - | 3 |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | 3 |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - |
| NEVADA COUNTY: TOTAL | 19 | 17 | 2 | - | - | - | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 16 | 2 | - | - | - | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| ORANGE COUNTY: TOTAL | 156 | 155 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | 76 | 6 | 42 | - | - | 3 | - | 22 | - | 4 | 1 | - | - | - | 1 |
| 0-19 EMPLOYEES | 133 | 132 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | 69 | 4 | 34 | - | - | 3 | - | 18 | - | 2 | 1 | - | - | - | 1 |
| 20-99 EMPLOYEES | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 2 | 7 | - | - | - | 4 | - | 2 | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| PLACER COUNTY: TOTAL | 14 | 12 | 2 | - | - | - | 2 | - | - | 1 | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | 4 | - | 1 | 1 | - | - | - | 1 |
| 0-19 EMPLOYEES | 13 | 12 | 1 | - | - | - | 2 | - | - | 1 | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | 4 | - | 1 | 1 | - | - | - | 1 |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| PLUMAS COUNTY: TOTAL | 8 | 8 | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| RIVERSIDE COUNTY: TOTAL | 47 | 39 | 8 | 1 | - | - | 1 | - | 1 | - | 2 | - | - | - | - | - | - | 1 | 2 | - | 10 | 2 | 10 | 2 | 4 | 3 | 3 | 2 | 2 | 1 |
| 0-19 EMPLOYEES | 39 | 33 | 6 | - | - | - | 1 | - | 1 | - | 2 | - | - | - | - | - | - | 1 | 2 | - | 9 | 1 | 7 | 2 | 4 | 2 | 3 | 2 | 2 | 1 |
| 20-99 EMPLOYEES | 6 | 4 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | 1 | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SACRAMENTO COUNTY: TOTAL | 45 | 42 | 3 | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 10 | - | 14 | - | - | 1 | 15 | 2 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 39 | 37 | 2 | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 9 | - | 14 | - | - | - | 11 | 2 | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 4 | - | - | - | - | - | - | - | - |
| SAN BENITO COUNTY: TOTAL | 28 | 25 | 3 | - | - | - | - | - | - | - | 5 | - | - | - | - | 6 | - | 9 | - | - | 3 | 1 | 1 | 1 | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 25 | 22 | 3 | - | - | - | - | - | - | - | 4 | - | - | - | - | 6 | - | 9 | - | - | 2 | 1 | 1 | 1 | 1 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SAN BERNARDINO COUNTY: TOTAL | 92 | 78 | 14 | 3 | 1 | 1 | 4 | - | 2 | 1 | - | - | - | - | - | 3 | - | 1 | 4 | - | 15 | 4 | 21 | 9 | 3 | 1 | 4 | - | 15 | - |
| 0-19 EMPLOYEES | 80 | 69 | 11 | 3 | 1 | 1 | 4 | - | 2 | 1 | - | - | - | - | - | 3 | - | 1 | 4 | - | 15 | 1 | 16 | 9 | 2 | 1 | 1 | - | 15 | - |
| 20-99 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 5 | - | 1 | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - |
| SAN DIEGO COUNTY: TOTAL | 52 | 49 | 3 | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 3 | - | 16 | 1 | 26 | 3 | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 44 | 41 | 3 | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 3 | - | 16 | 1 | 18 | 3 | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - |
| SAN FRANCISCO COUNTY: TOTAL | 17 | 16 | 1 | - | - | - | 4 | - | - | 1 | 1 | - | - | - | - | 5 | - | 2 | - | - | 1 | 1 | 1 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 15 | 15 | - | - | - | - | 4 | - | - | 1 | 1 | - | - | - | - | 5 | - | 1 | - | - | 1 | - | 1 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SAN JOAQUIN COUNTY: TOTAL | 50 | 46 | 4 | - | - | 1 | 2 | - | 1 | - | - | - | - | - | - | 18 | - | 20 | - | - | - | 3 | 3 | | | | | | | |

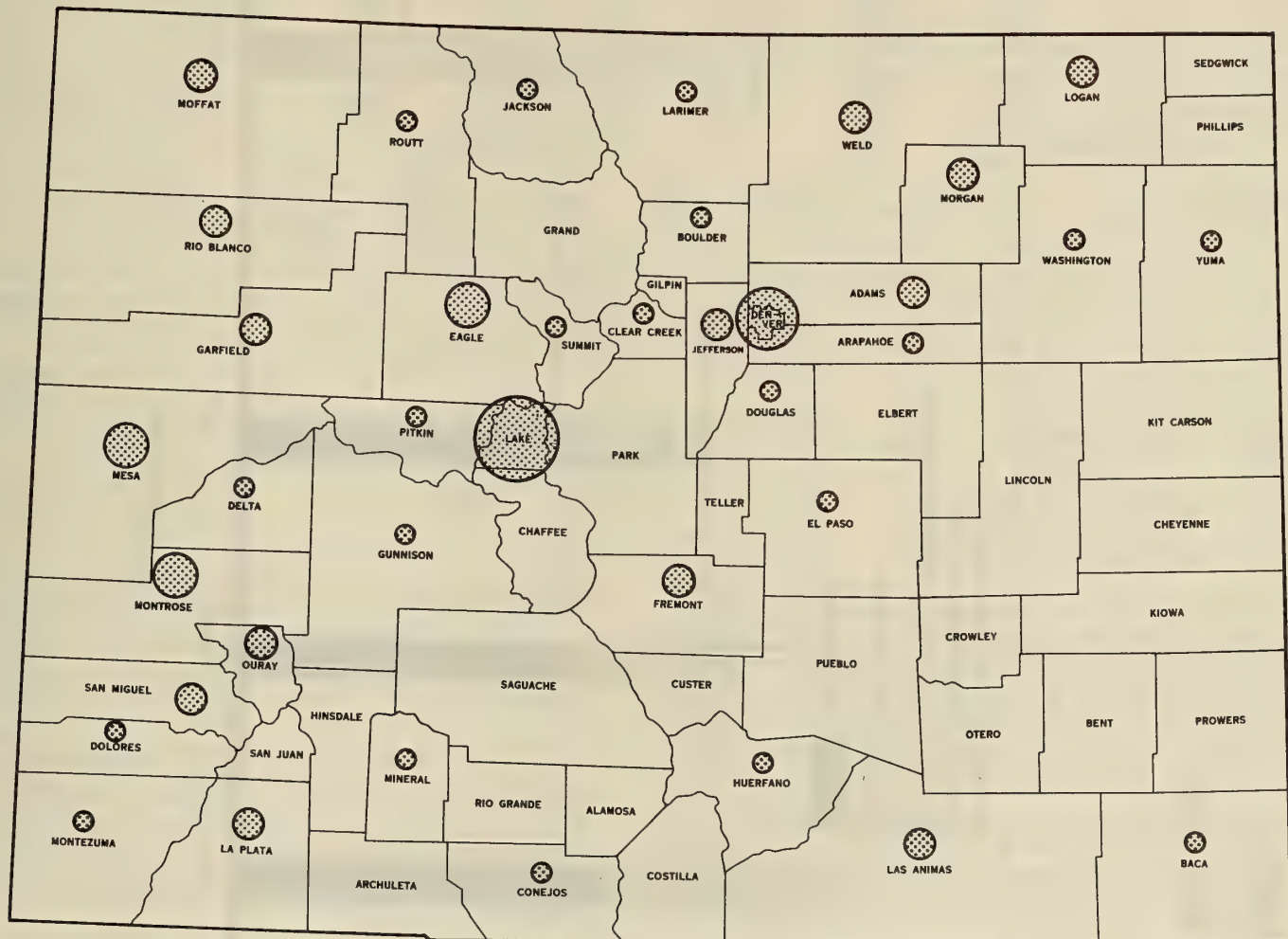
EMPLOYMENT IN MINING BY COUNTY: 1963

COLORADO

RANK AMONG STATES

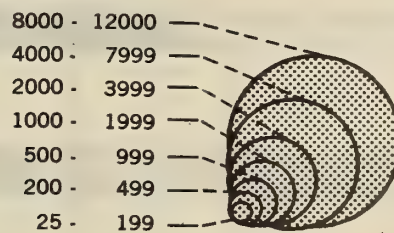
EMPLOYMENT - 16

VALUE OF SHIPMENT - 15



SCALE
0 10 20 30 40 50 MILES

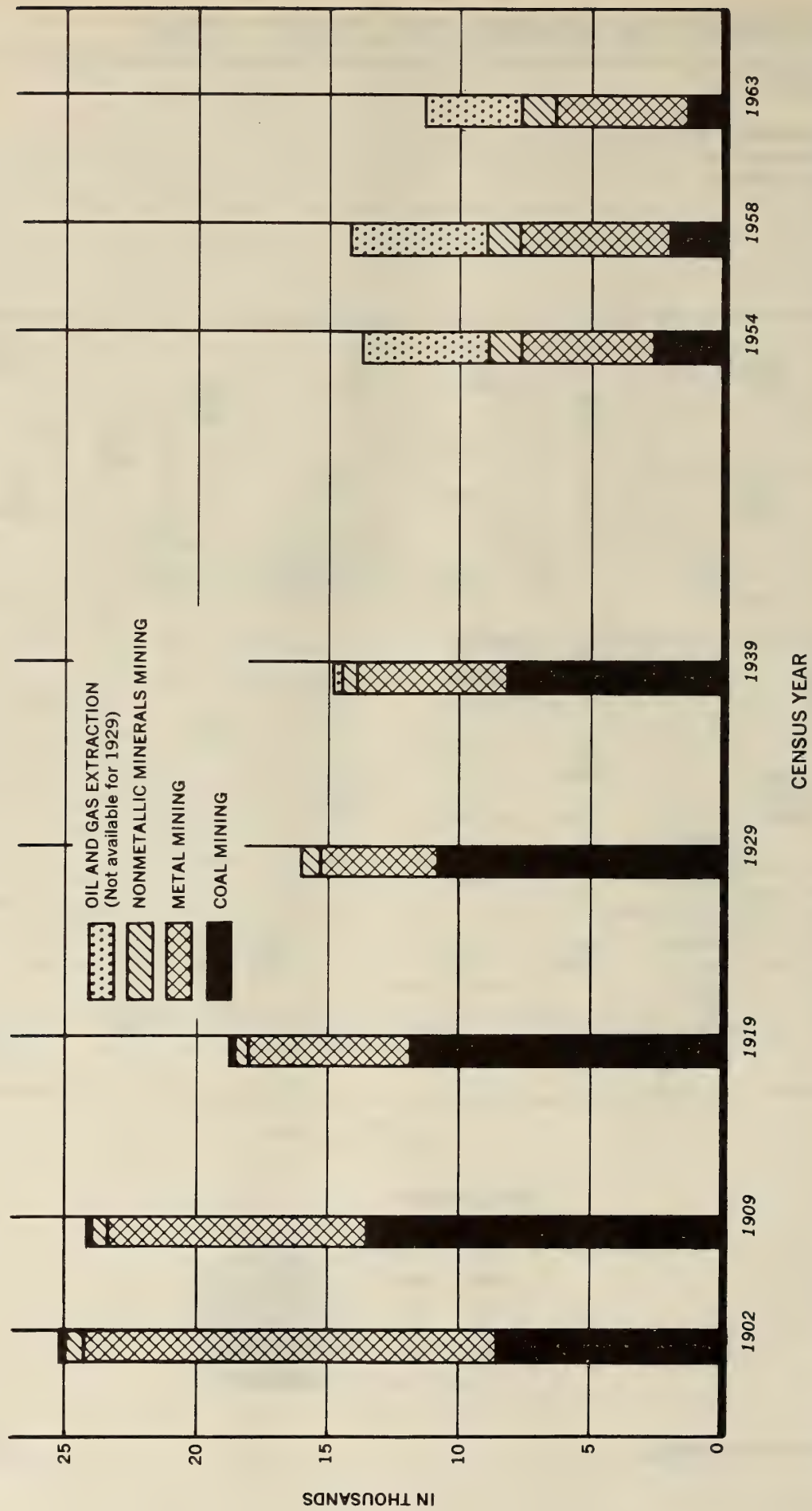
EMPLOYMENT



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

COLORADO



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 858 | 83 | 11 203 | 72 727 | 8 396 | 16 210 | 48 265 | 253 250 | |
| 1958 | 967 | 129 | 14 109 | 76 236 | 9 854 | 19 015 | 47 493 | 249 446 | |
| 1954 | 1 020 | 117 | 13 550 | 59 544 | 10 840 | 21 045 | 43 934 | 204 547 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 897 | 84 | 11 374 | 73 638 | 8 565 | 16 549 | 49 167 | 257 310 | |
| 1958 | 992 | 132 | 14 273 | 76 923 | 10 014 | 19 340 | 48 166 | 255 896 | |
| 1954 ² | 1 043 | 118 | 13 690 | 59 999 | 10 977 | 21 317 | 44 381 | 207 541 | |
| 1939 ³ | 4 589 | (NA) | 14 800 | 19 823 | 13 469 | 23 356 | 16 845 | 41 875 | |
| 1929 ⁵ | 431 | (NA) | 16 061 | 25 528 | 15 099 | (NA) | 23 075 | 32 205 | |
| 1919 ⁶ | 537 | (NA) | 18 699 | 28 999 | 17 268 | (NA) | 26 042 | 35 632 | |
| 1909 ⁶ | 1 060 | (NA) | 24 227 | 22 082 | 22 612 | (NA) | 19 663 | 29 579 | |
| 1902 ⁷ | 4 198 | (NA) | 25 210 | 24 316 | 22 856 | (NA) | 21 215 | 31 588 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 51 412 | 31 144 | 23 151 | 12 447 | 335 759 | 35 645 | 5 486 | 653 | 693 |
| 1958 | 67 383 | 37 038 | 36 338 | 31 374 | 362 473 | 59 106 | 6 230 | 632 | (NA) |
| 1954 | 49 949 | 103 355 | 40 750 | 24 767 | 1 258 895 | 56 479 | 4 872 | 449 | 701 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 11 52 063 | 31 152 | 11 23 151 | 12 12 454 | 340 478 | 12 35 652 | 12 5 486 | 653 | 12 693 |
| 1958 | 11 67 986 | 37 038 | 11 36 338 | 12 31 390 | 369 520 | 12 59 128 | 6 232 | 622 | (NA) |
| 1954 ² | 11 50 243 | 103 355 | 11 40 761 | 12 24 787 | 1 262 214 | 12 56 479 | 12 4 873 | 444 | 12 702 |
| 1939 ³ | 9 815 | (NA) | 601 | (NA) | 52 291 | (NA) | 2 113 | 157 | 201 |
| 1929 ⁵ | 8 712 | (NA) | 613 | 1 847 | 41 530 | (NA) | 2 329 | 154 | 126 |
| 1919 ⁶ | 10 879 | 4 282 | 424 | (NA) | 51 217 | (NA) | 13 3 205 | 186 | 121 |
| 1909 ⁶ | 6 997 | 5 959 | 3 145 | (NA) | 45 680 | (NA) | (NA) | (NA) | 110 |
| 1902 ⁷ | 8 038 | (NA) | 977 | (NA) | 40 603 | (NA) | (NA) | (NA) | 89 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry. No data on value of shipments or cost of minerals received for preparation were obtained for this industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Excludes data for dimension stone dressing plants, if any, operated in conjunction with 5 dimension stone quarries.

⁴Represents number of mines and quarries, number of natural gasoline plants, and, for crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for the oil and gas extraction industries and for common clay and shale mining operations. In 1939, the value of products and services of such operations was \$1,607 thousand.

⁶Excludes data for sand, gravel, common clay, and shale mining operations. In 1939, the value of products of such operations was \$576 thousand.

⁷Includes data for one cement plant and for lime plants producing lime valued at

\$46 thousand. See also footnote 6.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁰Excludes the cost of natural gas received for processing, but includes the estimated value prior to processing of natural gas liquids contained in such gas. See also footnote 1.

¹¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, and for dimension stone mining operations in manufacturing in 1958, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels, etc.

¹²Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹³Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 4 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 897 | 84 | 11 374 | 73 638 | 8 565 | 16 549 | 49 167 |
| | MINERAL INDUSTRIES. | 858 | 83 | 11 203 | 72 727 | 8 396 | 16 210 | 48 265 |
| | INCLUDED IN MANUFACTURES. | 39 | 1 | ¹ 171 | ¹ 911 | ¹ 169 | 339 | 902 |
| 10 | METAL MINING. | 235 | 20 | 5 021 | 30 437 | 4 208 | 7 954 | 23 002 |
| 104 | GOLD AND SILVER ORES. | 51 | 1 | 108 | 484 | 87 | 177 | 412 |
| 109 | MISCELLANEOUS METAL ORES. | 131 | 13 | 1 747 | 10 125 | 1 393 | 2 840 | 7 705 |
| 1094 | URANIUM-RADIUM-VANADIUM ORES. | 123 | 13 | 1 740 | 10 083 | 1 386 | 2 826 | 7 663 |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL)..... | 100 | 16 | 1 374 | 8 118 | 1 242 | 2 205 | 7 214 |
| 13 | OIL AND GAS EXTRACTION..... | 356 | 36 | 3 634 | 28 376 | 1 927 | 4 063 | 13 185 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 237 | 25 | 2 702 | 22 831 | 1 108 | 2 229 | 8 319 |
| | CRUDE PETROLEUM | 199 | 16 | 2 277 | 19 745 | 859 | 1 752 | 6 619 |
| | NATURAL GAS | 38 | 9 | 425 | 3 086 | 249 | 477 | 1 700 |
| 1321 | NATURAL GAS LIQUIDS | 7 | 2 | 123 | 879 | 115 | 241 | 831 |
| 138 | OIL AND GAS FIELD SERVICES. | 112 | 9 | 809 | 4 666 | 704 | 1 593 | 4 035 |
| 1381 | DRILLING OIL AND GAS WELLS. | 47 | 6 | 479 | 2 845 | 409 | 936 | 2 408 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 20 | 1 | 108 | 602 | 101 | 240 | 579 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C.. . . . | 45 | 2 | 222 | 1 219 | 194 | 417 | 1 048 |
| | NONMETALLIC MINERALS (EXCEPT FUELS) MINING | 206 | 12 | 1 345 | 6 707 | 1 188 | 2 327 | 5 766 |
| | MINERAL INDUSTRIES. | 167 | 11 | 1 174 | 5 796 | 1 019 | 1 988 | 4 864 |
| | INCLUDED IN MANUFACTURES. | 39 | 1 | ¹ 171 | ¹ 911 | ¹ 169 | 339 | 902 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 18 | 2 | 149 | 661 | 136 | 285 | 569 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: MINERAL SUBINDUSTRY | 11 | 1 | 99 | 427 | 93 | 186 | 385 |
| 1441 | SAND AND GRAVEL | 106 | 5 | 670 | 3 677 | 604 | 1 179 | 3 222 |
| | MINERAL INDUSTRY. | 89 | 5 | 601 | 3 302 | 535 | 1 040 | 2 847 |
| | INCLUDED IN MANUFACTURES. | 17 | - | ¹ 69 | ¹ 375 | ¹ 69 | 139 | 375 |
| 145 | CLAY AND RELATED MINERALS. | 36 | 1 | ¹ 158 | ¹ 756 | ¹ 135 | 275 | 681 |
| | MINERAL INDUSTRIES | 23 | 1 | 128 | 636 | 105 | 211 | 561 |
| | FIRE CLAY. | 20 | - | ¹ 56 | ¹ 236 | ¹ 53 | 104 | 220 |
| | CLAY AND RELATED MINERALS, N.E.C.. . . . | 13 | 1 | ¹ 92 | ¹ 499 | ¹ 78 | 163 | 445 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES | 20 | 1 | 135 | 598 | 113 | 239 | 452 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 257 310 | ² 118 820 | ¹ 340 478 | ³ 35 652 | 14 273 | 255 896 | |
| | MINERAL INDUSTRIES. | 253 250 | 118 154 | 335 759 | 35 645 | 14 109 | 249 446 | |
| | INCLUDED IN MANUFACTURES. | 4 060 | ² 666 | ¹⁴ 719 | ³⁷ | ¹ 164 | 6 450 | |
| 10 | METAL MINING. | 94 775 | 53 667 | 141 585 | 6 847 | 5 763 | 70 130 | |
| 104 | GOLD AND SILVER ORES. | 1 105 | 576 | 1 226 | 455 | 229 | 1 867 | |
| 109 | MISCELLANEOUS METAL ORES. | 30 081 | 33 794 | 60 984 | 2 891 | (NA) | (NA) | |
| 1094 | URANIUM-RADIUM-VANADIUM ORES. | 30 022 | 33 729 | 60 871 | 2 880 | 2 500 | 29 176 | |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 19 470 | 6 874 | 24 033 | 2 311 | 2 016 | 16 348 | |
| 13 | OIL AND GAS EXTRACTION. | 125 489 | 50 470 | 151 170 | 24 789 | 5 252 | 151 420 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 109 921 | 32 346 | 119 650 | 22 617 | 3 665 | 132 435 | |
| | CRUDE PETROLEUM | 103 584 | 29 230 | 113 205 | 19 609 | 3 470 | 127 094 | |
| | NATURAL GAS | 6 337 | 3 116 | 6 445 | 3 008 | 195 | 5 341 | |
| 1321 | NATURAL GAS LIQUIDS | 4 829 | 13 141 | 17 264 | 706 | (NA) | (NA) | |
| 138 | OIL AND GAS FIELD SERVICES. | 10 739 | 4 983 | 14 256 | 1 466 | (NA) | (NA) | |
| 1381 | DRILLING OIL AND GAS WELLS. | 7 021 | 3 288 | 9 464 | 845 | 1 009 | 9 740 | |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 1 303 | 658 | 1 709 | 252 | (NA) | (NA) | |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C.. . . . | 2 415 | 1 037 | 3 083 | 369 | 350 | 3 199 | |
| | NONMETALLIC MINERALS (EXCEPT FUELS) MINING. | 17 576 | ² 7 809 | ¹ 23 680 | ³ 1 705 | 1 242 | 17 998 | |
| | MINERAL INDUSTRIES. | 13 516 | 7 143 | 18 961 | 1 698 | 1 078 | 11 548 | |
| | INCLUDED IN MANUFACTURES. | 4 060 | ² 666 | ¹⁴ 719 | ³⁷ | ¹ 164 | 6 450 | |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 1 400 | 748 | 2 048 | 100 | 216 | 2 000 | |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY: MINERAL SUBINDUSTRY. | 1 115 | 416 | 1 465 | 66 | (NA) | (NA) |
| 1441 | SAND AND GRAVEL. | 10 244 | ² 4 402 | ¹ 13 679 | (NA) | 520 | 7 982 |
| | MINERAL INDUSTRY. | 8 115 | ⁴ 2 17 | ¹ 11 365 | 967 | 457 | 5 639 |
| | INCLUDED IN MANUFACTURES. | 2 129 | 185 | ² 314 | (NA) | 163 | 2 343 |
| 145 | CLAY AND RELATED MINERALS. | 1 734 | ² 1 052 | ¹ 2 559 | (NA) | 112 | 1 427 |
| | MINERAL INDUSTRIES. | 1 430 | 902 | 2 105 | 227 | 91 | 830 |
| | FIRE CLAY. | 668 | ² 282 | ¹ 876 | (NA) | (NA) | (NA) |
| | CLAY AND RELATED MINERALS, N.E.C. . | 1 046 | ² 732 | ¹ 649 | (NA) | (NA) | (NA) |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 1 416 | 886 | 2 187 | 115 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES | 118 154 | 51 412 | 31 144 | 23 151 | 12 447 | 35 645 | 13 383 | 22 262 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING | 53 667 | 28 114 | 19 256 | 3 925 | 2 372 | 6 847 | 2 082 | 4 765 | (x) | (x) | (x) | (x) |
| 109 | MISCELLANEOUS METAL ORES | 33 794 | 12 275 | 19 256 | 987 | 1 276 | 2 891 | 638 | 2 253 | (x) | (x) | (x) | (x) |
| 1094 | URANIUM-RADIUM-VANADIUM ORES | 33 729 | 12 255 | 19 213 | 987 | 1 274 | 2 880 | 632 | 2 248 | ³ 1 109 | 41 518 | - | - |
| 12 | BITUMINOUS COAL MINING | 6 874 | (D) | - | (D) | 1 635 | 2 311 | 27 | 2 284 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 6 874 | (D) | - | (D) | 1 635 | 2 311 | 27 | 2 284 | 3 972 | 23 513 | - | - |
| 13 | OIL AND GAS EXTRACTION | 50 470 | 14 386 | 11 872 | 17 011 | 7 201 | 24 789 | 11 191 | 13 598 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 32 346 | 10 821 | - | 15 710 | 5 815 | 22 617 | 11 190 | 11 427 | (x) | 118 626 | (x) | 1 038 |
| | CRUDE PETROLEUM | 29 230 | 9 489 | - | 14 395 | 5 346 | 19 609 | 9 587 | 10 022 | ⁴ 37 575 | 107 451 | ⁴ 701 | 1 876 |
| | NATURAL GAS | 3 116 | 1 332 | - | 1 315 | 469 | 3 008 | 1 603 | 1 405 | ⁵ 44 718 | 5 506 | ⁵ 40 220 | 4 831 |
| 1321 | NATURAL GAS LIQUIDS | 13 141 | 622 | 11 872 | 526 | 121 | 706 | - | 706 | ⁶ 3 471 | (D) | - | - |
| 138 | OIL AND GAS FIELD SERVICES | 4 983 | 2 943 | - | 775 | 1 265 | 1 466 | 1 | 1 465 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS | 3 288 | 2 126 | - | 623 | 539 | 845 | 1 | 844 | (x) | ⁷ 8 700 | (x) | (⁷) |
| 14 | NONMETALLIC MINERALS MINING | 7 143 | (D) | 16 | (D) | 1 239 | 1 698 | 83 | 1 615 | (x) | (x) | (x) | (x) |
| 144 | SAND AND GRAVEL | 4 217 | 2 669 | 16 | 765 | 767 | 967 | 10 | 957 | 10 084 | ⁸ 13 088 | ⁹ 1 876 | (⁸) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents crude ore mined, hence, is not directly comparable with the value of net shipments shown in the succeeding columns.⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁵Represents millions of cubic feet of natural gas shipped.⁶Represents net shipments of natural gas liquids only. Figure is in thousands of barrels.⁷Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁸Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 9.⁹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 731 | 633 | 442 | 176 | 54 | 212 | 175 | 58 | 109 | 8 | 16 | 98 |
| | NUMBER OF EMPLOYEES..... | 9 354 | 9 179 | 2 993 | 985 | 164 | 1 844 | 5 759 | 4 682 | 981 | 96 | 427 | 175 |
| | VALUE ADDED IN MINING.....\$1,000.. | 241 954 | 242 026 | 125 949 | 14 269 | 1 313 | 110 367 | 104 323 | 87 088 | 16 110 | 1 125 | 11 754 | (²) |
| 109 | MISCELLANEOUS METAL ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 131 | 120 | 109 | 105 | 4 | - | 3 | 2 | 1 | - | 8 | 11 |
| | NUMBER OF EMPLOYEES..... | 1 680 | 1 661 | 798 | 788 | 10 | - | 563 | (D) | (D) | - | 300 | 19 |
| | VALUE ADDED IN MINING.....\$1,000.. | 30 179 | 30 099 | 13 097 | 12 927 | 170 | - | 10 220 | (D) | (D) | - | 6 782 | 80 |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 100 | 99 | 50 | 44 | 3 | 3 | 49 | 46 | 3 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 1 361 | (D) | (D) | 99 | (D) | (D) | 1 245 | 1 155 | 90 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 19 470 | (D) | (D) | 791 | (D) | (D) | 18 539 | 16 402 | 2 137 | - | - | (D) |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 100 | 99 | 50 | 44 | 3 | 3 | 49 | 46 | 3 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 1 361 | (D) | (D) | 99 | (D) | (D) | 1 245 | 1 155 | 90 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 19 470 | (D) | (D) | 791 | (D) | (D) | 18 539 | 16 402 | 2 137 | - | - | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 244 | 215 | 208 | - | - | 208 | - | - | - | - | 7 | 29 |
| | NUMBER OF EMPLOYEES..... | 2 018 | 1 954 | (D) | - | - | (D) | - | - | - | - | (D) | 64 |
| | VALUE ADDED IN MINING.....\$1,000.. | 115 064 | 115 199 | (D) | - | - | (D) | - | - | - | - | (D) | (²) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 89 | 87 | 7 | - | 7 | - | 79 | - | 72 | 7 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 601 | (D) | 34 | - | 34 | - | 560 | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 115 | (D) | 182 | - | 182 | - | 7 892 | - | (D) | (D) | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ² | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 897 | 84 | 11 374 | 73 638 | 8 565 | 16 549 | 49 167 | 257 310 | 118 820 | 340 478 | 35 652 | 14 273 | 255 896 |
| | MINERAL INDUSTRIES. | 858 | 83 | 11 203 | 72 727 | 8 396 | 16 210 | 48 265 | 253 250 | 118 154 | 335 759 | 35 645 | 14 109 | 249 446 |
| | INCLUDED IN MANUFACTURES ² | 39 | 1 | 171 | 911 | 169 | 339 | 902 | 4 060 | 666 | 4 719 | 7 | 164 | 6 450 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ADAMS COUNTY, TOTAL. | 52 | 4 | 263 | 1 644 | 212 | 425 | 1 235 | 3 945 | 2 496 | 5 205 | 1 236 | 193 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 30 | 2 | 79 | 709 | 46 | 98 | 370 | 1 392 | 923 | 1 590 | 725 | 64 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 19 | 1 | 51 | 478 | 27 | 53 | 242 | 1 235 | 774 | 1 396 | 613 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 22 | 2 | 184 | 935 | 166 | 327 | 865 | 2 553 | 1 573 | 3 615 | 511 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 22 | 2 | 184 | 935 | 166 | 327 | 865 | 2 553 | 1 573 | 3 615 | 511 | 129 | 2 273 |
| | ARAPAHOE COUNTY, TOTAL. | 18 | - | 113 | 862 | 67 | 160 | 448 | 839 | 790 | 1 348 | 281 | 156 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 9 | - | 55 | 394 | 49 | 113 | 332 | 425 | 681 | 1 043 | 63 | (NA) | (NA) |
| | BACA COUNTY, TOTAL. | 16 | - | 37 | 255 | 36 | 84 | 241 | 426 | 2 055 | 1 906 | 575 | 46 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 16 | - | 37 | 255 | 36 | 84 | 241 | 426 | 2 055 | 1 906 | 575 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 9 | - | 1 | 7 | 1 | 2 | 7 | 88 | 1 445 | 797 | 560 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 7 | - | 36 | 248 | 35 | 82 | 234 | 514 | 610 | 1 109 | 15 | (NA) | (NA) |
| | BOULDER COUNTY, TOTAL. | 25 | 3 | 149 | 659 | 127 | 243 | 445 | 1 506 | 450 | 1 859 | 97 | 225 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 3 | - | 7 | 21 | 6 | 11 | 20 | 35 | 18 | 45 | 8 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 3 | - | 7 | 21 | 6 | 11 | 20 | 35 | 18 | 45 | 8 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 15 | 2 | 114 | 487 | 95 | 179 | 278 | 969 | 340 | 1 250 | 59 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 5 | 1 | 47 | 259 | 38 | 78 | 102 | 574 | 188 | 736 | 26 | (NA) | (NA) |
| | DENVER COUNTY, TOTAL. | 103 | 11 | 1 815 | 15 814 | 272 | 546 | 1 744 | 12 678 | 2 792 | 11 120 | 4 350 | 2 008 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 20 | 2 | 155 | 911 | 101 | 205 | 540 | 1 195 | 429 | 1 455 | 169 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | - | 25 | 148 | 25 | 53 | 148 | 455 | 219 | 608 | 66 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 4 | - | 25 | 148 | 25 | 53 | 148 | 455 | 219 | 608 | 66 | (NA) | (NA) |
| | DOLORES COUNTY, TOTAL. | 10 | 1 | 94 | 367 | 73 | 121 | 260 | 886 | 293 | 870 | 309 | 112 | (NA) |
| | DOUGLAS COUNTY, TOTAL. | 6 | - | 33 | 153 | 26 | 54 | 136 | 449 | 195 | 573 | 71 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 6 | - | 33 | 153 | 26 | 54 | 136 | 449 | 195 | 573 | 71 | (NA) | (NA) |
| | EL PASO COUNTY, TOTAL. | 12 | 1 | 57 | 227 | 44 | 88 | 176 | 842 | 384 | 975 | 251 | 167 | 1 188 |
| | FREMONT COUNTY, TOTAL. | 46 | 3 | 260 | 1 298 | 228 | 439 | 1 099 | 3 496 | 3 934 | 6 948 | 482 | 220 | (NA) |
| 12 | BITUMINOUS COAL MINING. | 21 | 1 | 91 | 405 | 80 | 134 | 357 | 1 021 | 361 | 1 251 | 131 | (NA) | (NA) |
| 1211 | BITUMINOUS COAL | 21 | 1 | 91 | 405 | 80 | 134 | 357 | 1 021 | 361 | 1 251 | 131 | (NA) | (NA) |
| | GUNNISON COUNTY, TOTAL. | 17 | 2 | 158 | 870 | 151 | 260 | 830 | 930 | 479 | 1 178 | 231 | 428 | 3 808 |
| 12 | BITUMINOUS COAL MINING. | 10 | 2 | 143 | 803 | 138 | 235 | 773 | 751 | 406 | 1 025 | 132 | (NA) | (NA) |
| 1211 | BITUMINOUS COAL | 10 | 2 | 143 | 803 | 138 | 235 | 773 | 751 | 406 | 1 025 | 132 | (NA) | (NA) |
| | JACKSON COUNTY, TOTAL. | 17 | - | 36 | 225 | 35 | 78 | 219 | 741 | 412 | 997 | 156 | 134 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 17 | - | 36 | 225 | 35 | 78 | 219 | 741 | 412 | 997 | 156 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 7 | - | 33 | 209 | 32 | 73 | 204 | 328 | 277 | 551 | 54 | (NA) | (NA) |
| | JEFFERSON COUNTY, TOTAL. | 33 | 1 | 238 | 1 564 | 162 | 322 | 975 | 3 078 | 1 422 | 4 207 | 293 | 154 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 20 | 1 | 165 | 917 | 138 | 273 | 795 | 2 013 | 1 323 | 3 113 | 223 | 68 | 923 |
| 145 | CLAY AND RELATED MINERALS | 8 | 1 | 83 | 472 | 67 | 142 | 412 | 893 | 619 | 1 422 | 90 | (NA) | (NA) |
| | LA PLATA COUNTY, TOTAL. | 55 | 4 | 319 | 2 304 | 169 | 351 | 1 066 | 3 513 | 6 710 | 7 449 | 2 774 | 636 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 41 | 3 | 227 | 1 825 | 102 | 224 | 746 | 2 777 | 5 409 | 5 459 | 2 727 | 321 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 26 | 3 | 182 | 1 523 | 65 | 138 | 527 | 2 155 | 2 259 | 1 859 | 2 555 | 298 | (NA) |
| | LARIMER COUNTY, TOTAL. | 25 | - | 70 | 358 | 62 | 119 | 311 | 1 183 | 846 | 1 592 | 437 | 68 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 14 | - | 25 | 159 | 20 | 48 | 124 | 800 | 529 | 1 009 | 320 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 11 | - | 16 | 96 | 13 | 26 | 75 | 566 | 512 | 759 | 319 | (NA) | (NA) |
| | LOGAN COUNTY, TOTAL. | 91 | 3 | 303 | 2 060 | 215 | 481 | 1 376 | 16 615 | 6 028 | 20 835 | 1 808 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 51 | 1 | 118 | 902 | 60 | 133 | 433 | 13 302 | 3 678 | 15 317 | 1 663 | 170 | (NA) |
| | MESA COUNTY, TOTAL. | 68 | 7 | 555 | 3 785 | 361 | 723 | 2 099 | 7 546 | 7 812 | 13 413 | 1 945 | 793 | (NA) |
| 10 | METAL MINING. | 25 | 4 | 266 | 1 486 | 228 | 451 | 1 240 | 5 414 | 6 153 | 10 850 | 717 | 577 | 9 251 |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | MESA COUNTY--CONTINUED | | | | | | | | | | | | | |
| 109 | MISCELLANEOUS METAL ORES | 22 | 3 | 236 | 1 328 | 200 | 387 | 1 104 | 5 081 | 5 963 | 10 347 | 697 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 31 | 1 | 88 | 662 | 70 | 154 | 493 | 1 087 | 1 442 | 1 340 | 1 189 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | - | 34 | 286 | 28 | 60 | 224 | 303 | 496 | 237 | 562 | (NA) | (NA) |
| | MOFFAT COUNTY, TOTAL | 51 | 5 | 329 | 1 865 | 277 | 545 | 1 539 | 11 166 | 5 424 | 13 966 | 2 624 | 327 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | 1 | 49 | 386 | 38 | 71 | 295 | 5 101 | 2 337 | 5 254 | 2 184 | 108 | (NA) |
| | MONTEZUMA COUNTY, TOTAL. | 29 | 1 | 104 | 728 | 83 | 172 | 554 | 1 620 | 1 466 | 2 546 | 540 | 147 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | 1 | 92 | 684 | 72 | 151 | 512 | 1 460 | 1 383 | 2 339 | 504 | 108 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 10 | 1 | 55 | 471 | 38 | 77 | 326 | 618 | 950 | 1 101 | 467 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | - | 37 | 213 | 34 | 74 | 186 | 842 | 433 | 1 238 | 37 | 75 | (NA) |
| | MONTROSE COUNTY, TOTAL | 70 | 4 | 832 | 4 827 | 706 | 1 509 | 3 975 | 11 255 | 14 427 | 23 440 | 2 242 | 677 | (NA) |
| 10 | METAL MINING | 57 | 4 | 791 | 4 580 | 668 | 1 433 | 3 738 | 9 925 | 13 776 | 22 378 | 1 323 | 674 | 7 480 |
| 109 | MISCELLANEOUS METAL ORES | 53 | 4 | 765 | 4 433 | 647 | 1 393 | 3 626 | 9 590 | 13 688 | 21 957 | 1 321 | 602 | 6 782 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | - | - | - | - | - | 806 | 127 | 369 | 564 | (NA) | (NA) |
| | MORGAN COUNTY, TOTAL | 67 | 3 | 264 | 1 906 | 210 | 456 | 1 483 | 11 757 | 3 158 | 14 035 | 880 | 260 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 40 | 3 | 144 | 1 181 | 104 | 218 | 869 | 9 290 | 1 806 | 10 445 | 651 | 98 | (NA) |
| | RIO BLANCO COUNTY, TOTAL | 59 | 3 | 382 | 2 720 | 303 | 623 | 1 973 | 52 035 | 17 878 | 65 373 | 4 540 | 518 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 52 | 3 | 369 | 2 660 | 290 | 596 | 1 913 | 51 947 | 17 853 | 65 276 | 4 524 | 512 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 25 | 1 | 204 | 1 564 | 126 | 231 | 825 | 49 074 | 9 983 | 54 868 | 4 189 | 244 | (NA) |
| | ROUIT COUNTY, TOTAL. | 25 | 2 | 123 | 861 | 112 | 222 | 794 | 2 693 | 1 418 | 3 472 | 639 | 192 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 14 | - | 19 | 168 | 16 | 37 | 149 | 580 | 126 | 603 | 103 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 10 | - | 18 | 163 | 16 | 37 | 149 | 568 | 115 | 580 | 103 | (NA) | (NA) |
| | SAN MIGUEL COUNTY, TOTAL | 34 | 2 | 288 | 1 539 | 259 | 466 | 1 355 | 4 109 | 866 | 4 417 | 558 | 525 | (NA) |
| 10 | METAL MINING | 26 | 2 | 285 | 1 522 | 257 | 462 | 1 344 | 3 782 | 657 | 4 210 | 229 | (NA) | (NA) |
| | WASHINGTON COUNTY, TOTAL | 74 | - | 161 | 1 048 | 128 | 291 | 834 | 11 331 | 4 403 | 13 535 | 2 199 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 74 | - | 161 | 1 048 | 128 | 291 | 834 | 11 331 | 4 403 | 13 535 | 2 199 | 295 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 51 | - | 77 | 518 | 53 | 111 | 388 | 8 665 | 3 084 | 9 789 | 1 960 | 151 | (NA) |
| | WELD COUNTY, TOTAL | 61 | 7 | 439 | 2 504 | 378 | 679 | 2 103 | 8 508 | 2 159 | 9 628 | 1 039 | 357 | (NA) |
| 12 | BITUMINOUS COAL MINING. | 6 | 5 | 222 | 1 337 | 214 | 382 | 1 303 | 3 319 | 578 | 3 704 | 193 | 209 | 2 391 |
| 1211 | BITUMINOUS COAL. | 6 | 5 | 222 | 1 337 | 214 | 382 | 1 303 | 3 319 | 578 | 3 704 | 193 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 49 | 1 | 135 | 734 | 83 | 148 | 372 | 4 417 | 1 321 | 4 912 | 826 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 25 | 1 | 79 | 433 | 51 | 82 | 202 | 3 808 | 988 | 4 049 | 747 | 66 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 24 | - | 56 | 301 | 32 | 66 | 170 | 609 | 333 | 863 | 79 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 1 | 82 | 433 | 81 | 149 | 428 | 772 | 260 | 1 012 | 20 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 6 | 1 | 82 | 433 | 81 | 149 | 428 | 772 | 260 | 1 012 | 20 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 70 | 3 | 242 | 1 317 | 204 | 366 | 1 072 | 2 605 | 972 | 3 420 | 157 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 53 | 2 | 184 | 956 | 163 | 301 | 829 | 1 174 | 570 | 1 655 | 89 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|---|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| COLORADO, TOTAL. | 897 | 858 | 39 | 1 | 7 | 25 | 51 | - | 8 | 12 | 131 | - | - | 100 | - | 237 | 7 | 112 | 12 | 5 | 18 | 3 | 89 | 17 | 23 | 13 | 2 | 3 | 20 | 1 | |
| NO EMPLOYEES. | 216 | 214 | 2 | 1 | 2 | 9 | 28 | - | 3 | - | 34 | - | - | 19 | - | 85 | 1 | 13 | 3 | - | 1 | - | 7 | 1 | 3 | 1 | - | - | 5 | - | |
| 1-4 EMPLOYEES. | 392 | 367 | 25 | - | 2 | 11 | 19 | - | 3 | 7 | 55 | - | - | 46 | - | 88 | 1 | 54 | 7 | 3 | 8 | 1 | 43 | 9 | 13 | 11 | - | 2 | 8 | 1 | |
| 5-9 EMPLOYEES. | 113 | 106 | 7 | - | 2 | 1 | 2 | - | - | 3 | 18 | - | - | 12 | - | 22 | - | 17 | 2 | 4 | - | - | 15 | 4 | 3 | 1 | - | 1 | 6 | - | |
| 10-19 EMPLOYEES. | 92 | 88 | 4 | - | 1 | - | 1 | - | 1 | 1 | 11 | - | - | 7 | - | 17 | 3 | 19 | 1 | - | 3 | 1 | 19 | 3 | 3 | - | 1 | - | - | - | |
| 20-49 EMPLOYEES. | 51 | 50 | 1 | - | - | 2 | - | - | - | 1 | 3 | - | - | 10 | - | 16 | 2 | 8 | 1 | - | 2 | 1 | 5 | - | - | - | - | - | - | - | |
| 50-99 EMPLOYEES. | 23 | 23 | - | - | - | - | 1 | - | - | - | 6 | - | - | 5 | - | 7 | - | 1 | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | |
| 100-249 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | 3 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 250-499 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 500-999 EMPLOYEES. | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 1000 EMPLOYEES AND OVER. | 1 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| ADAMS COUNTY, TOTAL. | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | - | 11 | - | - | - | - | 22 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 48 | 48 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | - | 10 | - | - | - | 20 | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - | - | |
| ALAMOSA COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| ARAPAHOE COUNTY, TOTAL. | 18 | 18 | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | 5 | - | 2 | 1 | - | - | - | 7 | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 18 | 18 | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | 5 | - | 2 | 1 | - | - | - | 7 | - | 1 | - | - | - | - | - | |
| ARCHULETA COUNTY, TOTAL. | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| BACA COUNTY, TOTAL. | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - | |
| BENT COUNTY, TOTAL. | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| BOULDER COUNTY, TOTAL. | 28 | 25 | 3 | - | - | - | 2 | - | 1 | 2 | 2 | - | - | - | - | - | - | 3 | 4 | 1 | - | - | 5 | 1 | 1 | 1 | 1 | - | 4 | - | |
| 0-19 EMPLOYEES. | 25 | 22 | 3 | - | - | - | 2 | - | 1 | 1 | 2 | - | - | - | - | - | - | 3 | 3 | 1 | - | - | 4 | 1 | 1 | 1 | 1 | - | 4 | - | |
| 20-99 EMPLOYEES. | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | |
| CHAFFEE COUNTY, TOTAL. | 9 | 7 | 2 | - | - | - | 1 | - | - | 1 | 1 | - | - | - | - | 1 | - | - | 1 | 2 | - | - | 1 | - | 1 | 1 | - | 1 | - | - | |
| 0-19 EMPLOYEES. | 9 | 7 | 2 | - | - | - | 1 | - | - | 1 | 1 | - | - | - | - | 1 | - | - | 1 | 2 | - | - | 1 | - | 1 | 1 | - | 1 | - | - | |
| CHEYENNE COUNTY, TOTAL. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| CLEAR CREEK COUNTY, TOTAL. | 16 | 16 | - | - | 2 | 4 | 8 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 16 | 16 | - | - | 2 | 4 | 8 | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| CONEJOS COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| COSTILLA COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| DELTA COUNTY, TOTAL. | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| DENVER COUNTY, TOTAL. | 105 | 103 | 2 | - | - | 1 | 2 | - | 1 | - | 5 | - | - | - | - | 70 | - | 20 | - | - | - | - | 4 | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES. | 94 | 92 | 2 | - | - | 1 | 2 | - | 1 | - | 5 | - | - | - | - | 61 | - | 18 | - | - | - | - | 4 | 1 | - | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES. | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| DOLORES COUNTY, TOTAL. | 10 | 10 | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | 1 | 1 | - | - | |
| 0-19 EMPLOYEES. | 9 | 9 | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| DOUGLAS COUNTY, TOTAL. | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 4 | 3 | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 4 | 3 | - | - | - | - | - | |
| EAGLE COUNTY, TOTAL. | 7 | 6 | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | - | - | - | - | - | 2 | - | |
| 0-19 EMPLOYEES. | 6 | 5 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | - | - | - | - | - | 2 | - | |
| 250 EMPLOYEES AND OVER. | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| ELBERT COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| EL PASO COUNTY, TOTAL. | 16 | 12 | 4 | - | - | - | - | - | - | 1 | 2 | - | - | 1 | - | 1 | - | - | - | 2 | 1 | 3 | 1 | 1 | 2 | - | - | - | 1 | - | |
| 0-19 EMPLOYEES. | 15 | 11 | 4 | - | - | - | - | - | - | 1 | 2 | - | - | 1 | - | 1 | - | - | - | 1 | 1 | 3 | 1 | 1 | 2 | - | - | - | 1 | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| FREMONT COUNTY, TOTAL. | 49 | 46 | 3 | - | - | - | - | - | 2 | 3 | - | - | 21 | - | 3 | - | 1 | 2 | - | 6 | 1 | - | 1 | 4 | 1 | - | 1 | 3 | - | - | |
| 0-19 EMPLOYEES. | 46 | 43 | 3 | - | - | - | - | - | 2 | 2 | - | - | 20 | - | 3 | - | 1 | 2 | - | 5 | 1 | - | 1 | 4 | 1 | - | 1 | 3 | - | - | |
| 20-99 EMPLOYEES. | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| GARFIELD COUNTY, TOTAL. | 23 | 23 | - | - | - | - | - | - | 1 | 1 | - | - | 5 | - | 9 | - | 4 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 21 | 21 | - | - | - | - | - | - | 1 | - | - | - | 4 | - | 9 | - | 4 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| GILPIN COUNTY, TOTAL. | 8 | 8 | - | - | - | 1 | 6 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES. | 8 | 8 | - | - | - | 1 | 6 | - | - | 1 | - | - | - | - | - | - | | | | | | | | | | | | | | | |

See footnotes at end of table.

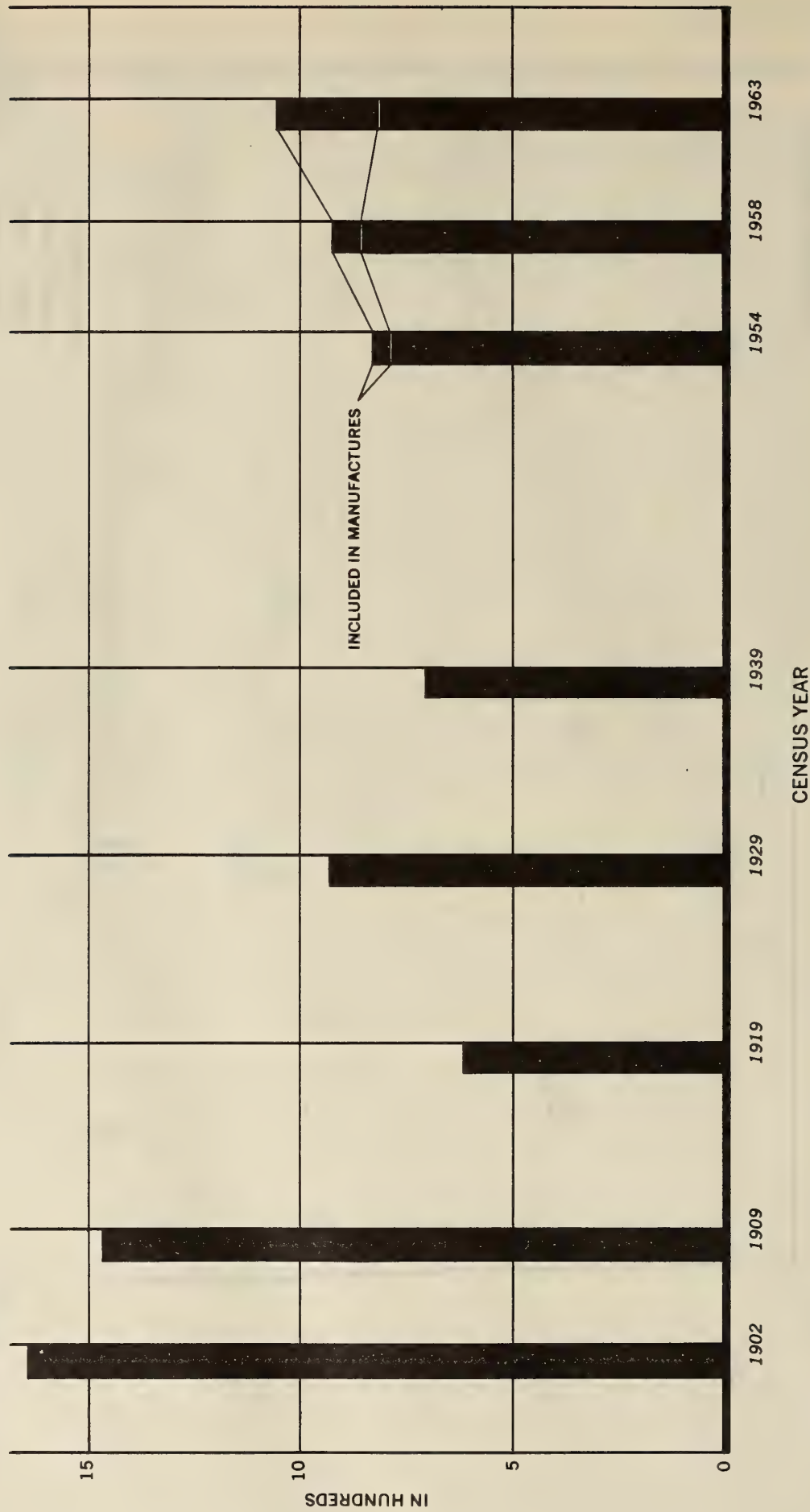
Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

CONNECTICUT



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|---|--|-------------------------------|--|--|--------------------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 80 | 15 | 819 | 5 619 | 669 | 1 479 | 4 245 | 10 952 | |
| 1958 | 81 | 12 | 859 | 4 656 | 664 | 1 466 | 3 302 | 9 396 | |
| 1954 | 91 | 7 | 790 | 3 445 | 605 | 1 437 | 2 464 | 8 003 | |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963 | 105 | 17 | 1 056 | 6 980 | 906 | 1 953 | 5 606 | 16 354 | |
| 1958 | 97 | 12 | 927 | 4 939 | 730 | 1 601 | 3 570 | 10 540 | |
| 1954 ¹ | 104 | 7 | 833 | 3 682 | 647 | 1 580 | 2 696 | 9 223 | |
| 1939 ² | 363 | (NA) | 706 | 935 | 635 | 1 370 | 754 | 2 241 | |
| 1929 ⁴ | 52 | (NA) | 932 | 1 621 | 816 | (NA) | 1 307 | 3 711 | |
| 1919 ⁵ | 41 | (NA) | 615 | 791 | 543 | (NA) | 647 | 1 197 | |
| 1909 ⁵ | 71 | (NA) | 1 470 | 812 | 1 385 | (NA) | 729 | 1 163 | |
| 1902 ⁶ | 390 | (NA) | 1 648 | 941 | 71 497 | (NA) | 809 | 1 190 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 94 115 | (⁹) | 427 | 1 324 | 14 925 | 1 893 | 200 | 299 | 129 |
| 1958 | 3 581 | 10 | 407 | 763 | 12 986 | 1 171 | 162 | 244 | (NA) |
| 1954 | 1 891 | 36 | 302 | 586 | 9 719 | 1 099 | 143 | 236 | 64 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963 | 104 838 | (⁹) | 10 428 | ⁹ 11 324 | 21 049 | (NA) | (NA) | (NA) | (NA) |
| 1958 | 103 737 | 10 | 10 407 | 11 766 | 14 286 | 11 174 | 11 62 | 222 | (NA) |
| 1954 ¹ | 102 025 | 37 | 10 302 | 11 594 | 11 079 | 11 107 | 11 43 | 221 | 11 65 |
| 1939 ² | 700 | (NA) | 21 | (NA) | 2 962 | (NA) | 95 | 150 | 28 |
| 1929 ⁴ | 482 | (NA) | — | 252 | 4 193 | (NA) | 153 | 188 | 14 |
| 1919 ⁵ | 425 | — | 27 | (NA) | 1 649 | (NA) | 12 92 | 169 | 9 |
| 1909 ⁵ | 199 | — | 14 | (NA) | 1 376 | (NA) | (NA) | (NA) | 6 |
| 1902 ⁶ | 236 | (NA) | — | (NA) | 1 426 | (NA) | (NA) | (NA) | 8 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: — Represents Zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operations was \$45 thousand; this value has been included in the value of shipments and in value added in mining. The corresponding value for sandstone is not available.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale and peat mining operations. There were 12 such mines in 1939, with products valued at between \$63 thousand and \$173 thousand.

⁵Excludes data for sand and gravel mining operations. There were 10 such establishments in 1929, with products valued at \$383 thousand. For 1919 and 1902, excludes data for one nonproducing establishment. See also footnote 4.

⁶Includes data for lime plants producing lime valued at \$204 thousand. See also footnote 4 and 5.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures down for cost of minerals received for preparation. For other years represents net production and excludes this duplication.

⁹Figures for the cost of minerals received for preparation and for dimension stone in manufactures for purchased machinery installed are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For 1963, see also footnote 2.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 5 percent of the total kwh. equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 1421 | ALL MINERAL OPERATIONS. | 105 | 17 | 1 056 | 6 980 | 906 | 1 953 | 5 606 |
| | MINERAL INDUSTRIES. | 80 | 15 | 819 | 5 619 | 669 | 1 479 | 4 245 |
| | INCLUDED IN MANUFACTURES. | 25 | 2 | ¹ 237 | ¹ 1 361 | ² 237 | 474 | 1 361 |
| | CRUSHED AND BROKEN STONE, TOTAL | 18 | 6 | 461 | 3 259 | 397 | 896 | 2 669 |
| | MINERAL INDUSTRIES. | 13 | 5 | 271 | 2 135 | 207 | 515 | 1 545 |
| | INCLUDED IN MANUFACTURES. | 5 | 1 | ¹ 190 | ¹ 1 124 | ¹ 190 | 381 | 1 124 |
| 1441 | CRUSHED AND BROKEN LIMESTONE. | 6 | 2 | ¹ 77 | ¹ 381 | ¹ 67 | 163 | 318 |
| | CRUSHED AND BROKEN STONE, N.E.C., (MINERAL SUBINDUSTRY). | 7 | 3 | 192 | 1 728 | 140 | 349 | 1 216 |
| | SAND AND GRAVEL | 67 | 9 | 449 | 2 796 | 396 | 825 | 2 308 |
| | MINERAL INDUSTRY. | 54 | 8 | 423 | 2 650 | 370 | 772 | 2 162 |
| | INCLUDED IN MANUFACTURES. | 13 | 1 | ¹ 26 | ¹ 146 | ¹ 26 | 53 | 146 |
| | CLAY AND RELATED MINERALS | 8 | 1 | ¹ 83 | ¹ 399 | ¹ 77 | 158 | 363 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 1421 | ALL MINERAL OPERATIONS. | 16 354 | ² 6 590 | ¹ 21 049 | (NA) | 927 | 10 540 | |
| | MINERAL INDUSTRIES. | 10 952 | 5 866 | 14 925 | 1 893 | 859 | 9 396 | |
| | INCLUDED IN MANUFACTURES. | 5 402 | ² 724 | ¹ 6 124 | (NA) | 1 68 | 1 144 | |
| | CRUSHED AND BROKEN STONE, TOTAL | 8 516 | ² 2 490 | ¹ 10 575 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRIES. | 4 073 | 2 059 | 5 701 | 431 | 397 | 3 971 | |
| | INCLUDED IN MANUFACTURES. | 4 443 | ² 431 | ¹ 4 874 | (NA) | (NA) | (NA) | |
| 1441 | CRUSHED AND BROKEN LIMESTONE. | 1 447 | ² 403 | ¹ 1 736 | (NA) | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE, N.E.C., (MINERAL SUBINDUSTRY). | 3 229 | 1 626 | 4 538 | 317 | 338 | 3 523 | |
| | SAND AND GRAVEL | 6 548 | ² 3 145 | ¹ 8 389 | (NA) | 446 | 5 503 | |
| | MINERAL INDUSTRY. | 5 826 | 3 001 | 7 523 | 1 304 | 423 | 5 073 | |
| | INCLUDED IN MANUFACTURES. | 722 | ² 144 | ¹ 866 | (NA) | 123 | 430 | |
| | CLAY AND RELATED MINERALS | 860 | ² 801 | ¹ 1 539 | ³ 122 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES . | 5 866 | 34 115 | (³) | 427 | 1 324 | 1 893 | 16 | 1 877 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . . . | 2 059 | 31 707 | (³) | 116 | 236 | 431 | 2 | 429 | 3 613 | 5 667 | 41 055 | 42 877 |
| 1441 | SAND AND GRAVEL | 3 001 | 1 707 | 91 | 221 | 982 | 1 304 | 9 | 1 295 | 6 138 | 8 972 | 61 355 | (³) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Cost of minerals received for preparation is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Excludes figures for minerals produced and used in the same establishment.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.**TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963**

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 78 | 76 | 21 | 1 | 19 | 1 | 54 | - | 51 | 3 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 783 | (D) | (D) | (D) | (D) | (D) | 760 | - | 725 | 35 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 570 | (D) | (D) | (D) | (D) | (D) | 11 289 | - | 10 873 | 416 | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 13 | 13 | - | - | - | - | 13 | - | 13 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 241 | 241 | - | - | - | - | 241 | - | 241 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 073 | 4 073 | - | - | - | - | 4 073 | - | 4 073 | - | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 54 | 52 | 10 | - | 10 | - | 41 | - | 38 | 3 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 423 | (D) | (D) | - | (D) | - | 454 | - | 419 | 35 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 826 | (D) | (D) | - | (D) | - | 6 569 | - | 6 153 | 416 | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|------------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man -hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATION. | 105 | 17 | 1 056 | 6 980 | 906 | 1 953 | 5 606 | 16 354 | 6 590 | 21 049 | (NA) | 927 | 10 540 |
| | MINERAL INDUSTRIES | 80 | 15 | 819 | 5 619 | 669 | 1 479 | 4 245 | 10 952 | 5 866 | 14 925 | 1 893 | 859 | 9 396 |
| | INCLUDED IN MANUFACTURES ² | 25 | 2 | 237 | 1 361 | 237 | 474 | 1 361 | 5 402 | 724 | 6 124 | (NA) | 68 | 1 144 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | FAIRFIELD COUNTY, TOTAL. | 13 | 3 | 143 | 1 034 | 96 | 207 | 588 | 1 555 | 704 | 2 044 | 215 | 113 | 1 333 |
| | HARTFORD COUNTY, TOTAL | 15 | 1 | 104 | 739 | 89 | 182 | 591 | 1 590 | 812 | 2 103 | 299 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 15 | 1 | 104 | 739 | 89 | 182 | 591 | 1 590 | 812 | 2 103 | 299 | 235 | 1 214 |
| 144 | SAND AND GRAVEL. | 10 | 1 | 64 | 435 | 54 | 106 | 335 | 1 026 | 326 | 1 189 | 163 | 67 | 929 |
| | LITCHFIELD COUNTY, TOTAL | 6 | 2 | 82 | 437 | 70 | 174 | 358 | 1 154 | 459 | 1 352 | 261 | 52 | 293 |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 2 | 82 | 437 | 70 | 174 | 358 | 1 154 | 459 | 1 352 | 261 | (NA) | (NA) |
| | MIDDLESEX COUNTY, TOTAL. | 11 | 3 | 173 | 892 | 159 | 337 | 815 | 1 962 | 1 284 | 2 951 | 295 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 11 | 3 | 173 | 892 | 159 | 337 | 815 | 1 962 | 1 284 | 2 951 | 295 | 35 | 198 |
| | NEW HAVEN COUNTY, TOTAL. | 14 | 5 | 249 | 2 057 | 194 | 444 | 1 540 | 4 202 | 1 525 | 5 418 | 309 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 14 | 5 | 219 | 1 745 | 194 | 444 | 1 540 | 4 202 | 1 525 | 5 418 | 309 | 319 | 1 084 |
| 142 | CRUSHED AND BROKEN STONE | 5 | 3 | 127 | 1 139 | 110 | 285 | 987 | 2 736 | 1 164 | 3 710 | 190 | 174 | 1 964 |
| 144 | SAND AND GRAVEL. | 9 | 2 | 92 | 606 | 84 | 159 | 553 | 1 466 | 361 | 1 708 | 119 | 145 | 1 727 |
| | NEW LONDON COUNTY, TOTAL | 7 | 1 | 45 | 249 | 37 | 80 | 205 | 461 | 526 | 801 | 186 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 1 | 45 | 249 | 37 | 80 | 205 | 461 | 526 | 801 | 186 | 71 | 778 |
| | WINDHAM COUNTY, TOTAL. | 6 | - | 26 | 208 | 21 | 49 | 129 | 402 | 565 | 674 | 293 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | - | 26 | 208 | 21 | 49 | 129 | 402 | 565 | 674 | 293 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing data for individual companies. (NA) Not available.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represents the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 110 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 122 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|--|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| CONNECTICUT: TOTAL | 105 | 80 | 25 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 7 | 2 | 13 | 5 | 54 | 13 | 3 | 5 | - | 1 | 1 | - | |
| NO EMPLOYEES | 15 | 9 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 6 | 6 | - | - | - | - | - | - | |
| 1-4 EMPLOYEES | 45 | 31 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 2 | 3 | 2 | 22 | 6 | 1 | 4 | - | - | 1 | - | |
| 5-9 EMPLOYEES | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 8 | - | - | - | - | - | 1 | - | - | |
| 10-19 EMPLOYEES | 16 | 15 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 10 | - | 1 | 1 | - | - | - | - | |
| 20-49 EMPLOYEES | 15 | 14 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 4 | - | 8 | 1 | 1 | - | - | - | - | - | |
| 50-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | |
| FAIRFIELD COUNTY: TOTAL | 15 | 13 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 2 | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 2 | - | - | - | - | 1 | - | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| HARTFORD COUNTY: TOTAL | 22 | 15 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 3 | 10 | 2 | - | 2 | - | - | - | - | |
| 0-19 EMPLOYEES | 20 | 14 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 2 | 9 | 2 | - | 2 | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| LITCHFIELD COUNTY: TOTAL | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 2 | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 2 | 1 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| MIDDLESEX COUNTY: TOTAL | 13 | 11 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1 | 3 | 1 | - | 2 | - | - | - | |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | 1 | - | 2 | - | - | - | |
| 20-99 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 | - | - | - | - | - | - | |
| NEW HAVEN COUNTY: TOTAL | 19 | 14 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | 9 | 2 | - | 2 | - | - | - | - | |
| 0-19 EMPLOYEES | 14 | 9 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 7 | 2 | - | 2 | - | - | - | - | |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | - | |
| NEW LONDON COUNTY: TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | 2 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| TOLLAND COUNTY: TOTAL | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | 5 | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | 5 | 2 | - | - | - | - | - | - | |
| WINDHAM COUNTY: TOTAL | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | 3 | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

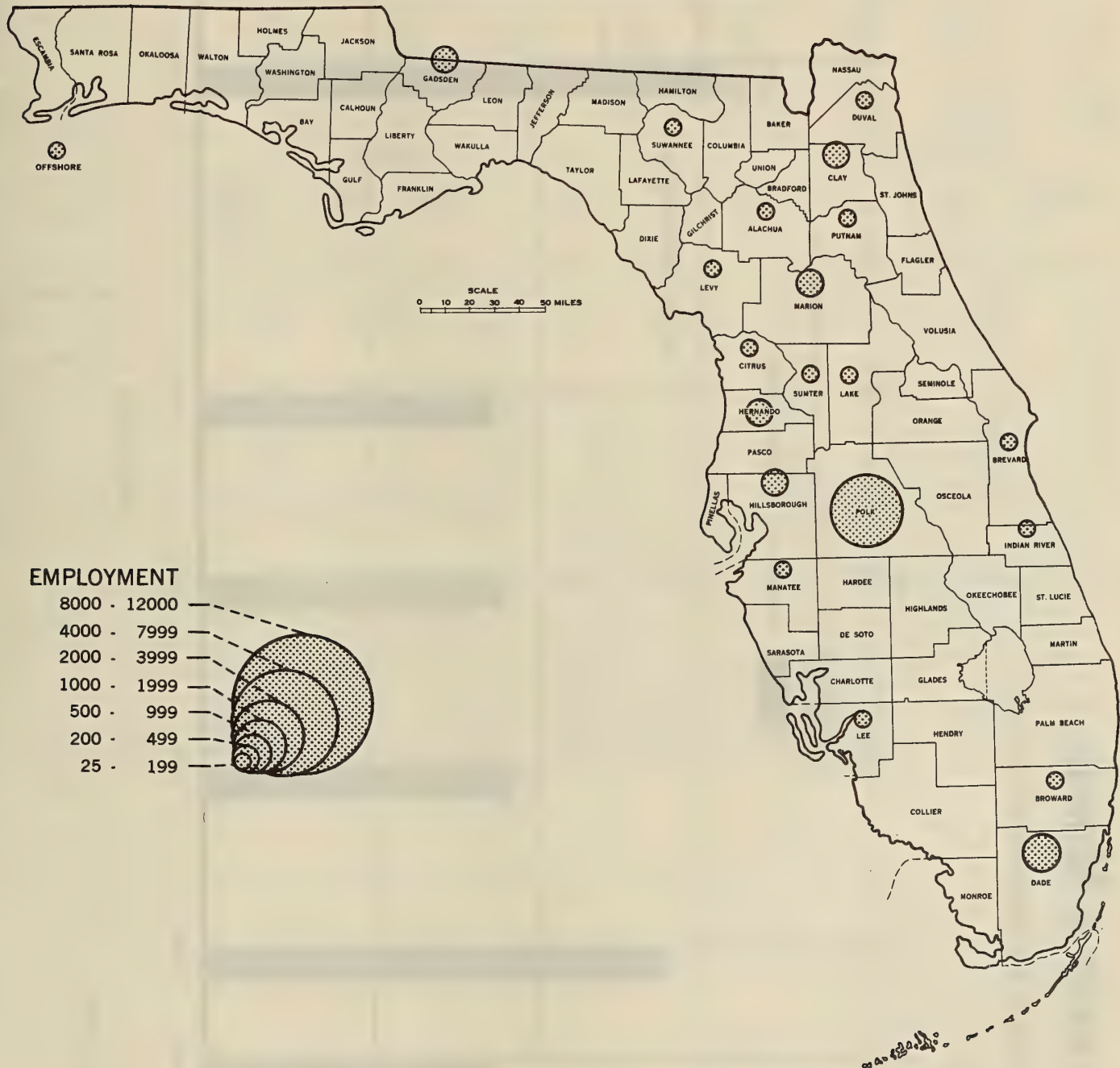
EMPLOYMENT IN MINING BY COUNTY: 1963

FLORIDA

RANK AMONG STATES

EMPLOYMENT — 25

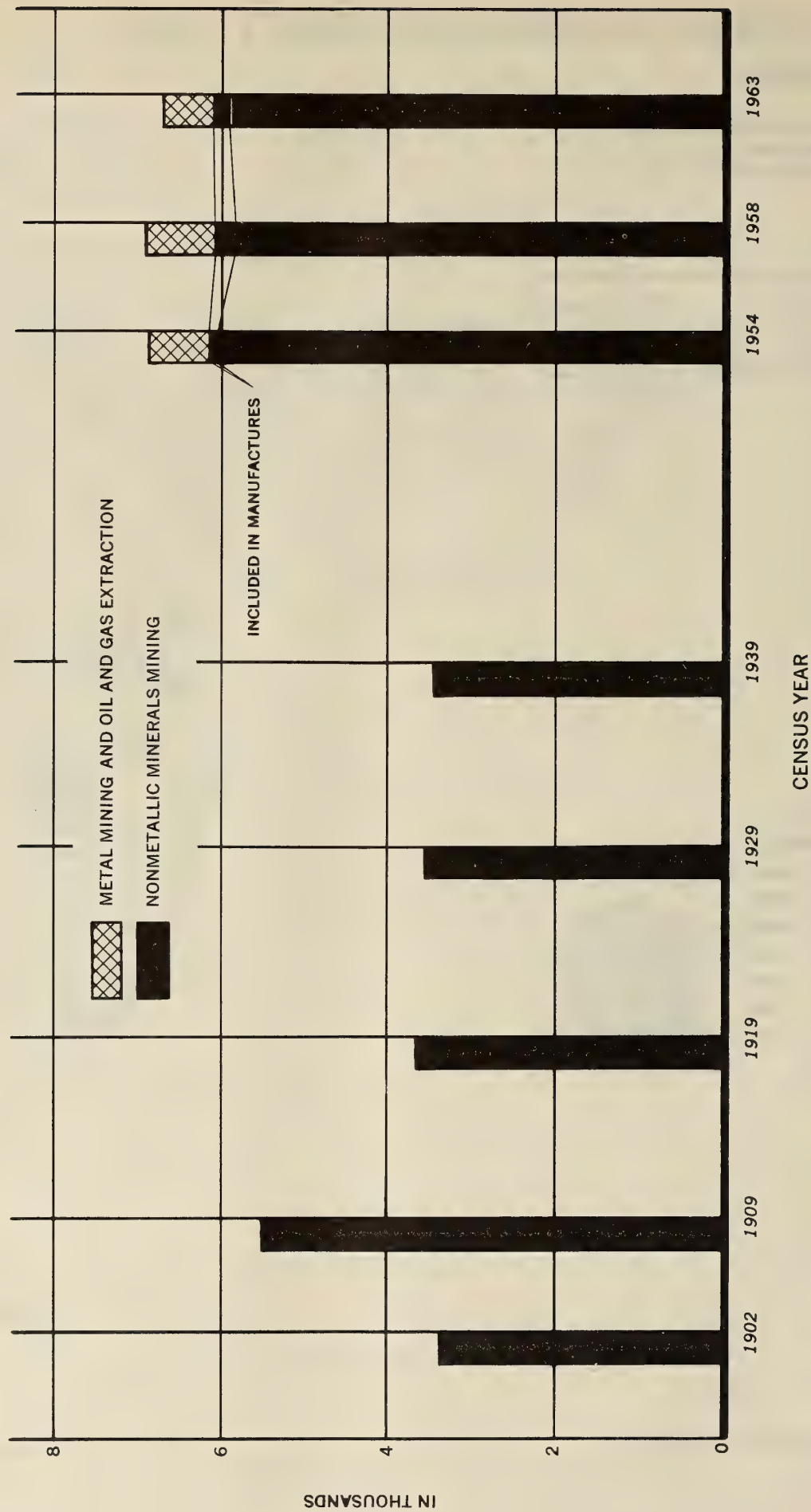
VALUE OF SHIPMENT — 20



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

FLORIDA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|---------------------------------------|--|--|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 219 | 61 | 6 555 | 32 754 | 5 152 | 12 147 | 23 709 | 109 010 | |
| 1958 | 206 | 69 | 6 694 | 29 062 | 5 483 | 11 689 | 22 022 | 82 652 | |
| 1954 | 193 | 54 | 6 796 | 26 080 | 5 532 | 12 951 | 19 610 | 167 366 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 259 | 64 | 6 731 | 33 568 | 5 328 | 12 499 | 24 523 | 114 519 | |
| 1958 | 220 | 72 | 6 921 | 30 133 | 5 708 | 12 142 | 23 085 | 87 436 | |
| 1954 ² | 199 | 57 | 6 889 | 26 426 | 5 625 | 13 137 | 19 956 | 168 702 | |
| 1939 ³ | 486 | (NA) | 3 468 | 3 190 | 3 083 | 6 017 | 2 415 | 8 143 | |
| 1929 ⁵ | 66 | (NA) | 3 567 | 4 139 | 3 173 | (NA) | 3 152 | 10 112 | |
| 1919 ⁶ | 36 | (NA) | 3 686 | 3 774 | 3 372 | (NA) | 3 108 | 5 332 | |
| 1909 ⁶ | 36 | (NA) | 5 518 | 2 847 | 5 214 | (NA) | 2 351 | 6 667 | |
| 1902 ⁷ | 474 | (NA) | 3 394 | 1 321 | 83 161 | (NA) | 1 087 | 2 306 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 35 982 | 71 409 | 4 218 | 14 140 | 215 040 | 19 719 | 4 184 | 812 | 694 |
| 1958 | 29 588 | 38 712 | 4 354 | 9 573 | 153 198 | 11 681 | 2 909 | 531 | (NA) |
| 1954 | 24 798 | 32 291 | 4 952 | 11 067 | 1124 839 | 15 634 | 3 094 | 559 | 415 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | ¹⁰ 37 187 | 71 409 | ¹⁰ 4 218 | ¹¹ 14 140 | 221 754 | ¹¹ 19 719 | ¹¹ 4 184 | 812 | ¹¹ 694 |
| 1958 | ¹⁰ 30 556 | ¹⁰ 38 712 | ¹⁰ 4 354 | ¹¹ 9 573 | 158 950 | ¹¹ 11 681 | ¹¹ 2 909 | 510 | (NA) |
| 1954 ² | ¹⁰ 25 170 | 32 291 | ¹⁰ 4 953 | ¹¹ 11 071 | ¹ 126 550 | ¹¹ 15 636 | ¹¹ 3 094 | 550 | ¹¹ 415 |
| 1939 ³ | 3 045 | (NA) | 43 | (NA) | 11 231 | (NA) | 1 046 | 339 | 117 |
| 1929 ⁵ | 3 875 | (NA) | 28 | 766 | 14 015 | (NA) | 1 471 | 464 | 110 |
| 1919 ⁶ | 3 523 | - | 121 | (NA) | 8 976 | (NA) | ¹² 1 868 | 554 | 45 |
| 1909 ⁶ | 1 962 | - | 218 | (NA) | 8 847 | (NA) | (NA) | (NA) | 42 |
| 1902 ⁷ | 631 | (NA) | 7 | (NA) | 2 944 | (NA) | (NA) | (NA) | 10 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing limestone at such operations was \$57 thousand; this value has been included in the value of shipments and value added in mining.

⁴Represents number of mines and quarries and, for mining services industries, number of operating companies.

⁵Excludes data for common clay and shale and peat operations and for one nonproducing limestone operation. In 1939, there were 4 such clay and peat mines, with products of the 3 clay operations valued at \$25 thousand.

⁶Excludes data for sand and gravel mining operations and stone quarries operated as parts of cement and lime plants. In 1929, there were 9 such sand and gravel operations, with products valued at \$490 thousand, and 2 such stone quarries. See also footnote 5. Also, excludes data for nonproducing phosphate rock operations: for 1919, one mine; and for 1909, 2 mines.

⁷Excludes data for sand, gravel, common clay, and shale mining operations. Includes data for lime plants producing lime valued at \$38 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For all other years, represents net production and excludes this duplication.

¹⁰For stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work (and for 1958 the cost of minerals received for preparation) is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 7 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|---------------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 259 | 64 | 6 731 | 33 568 | 5 328 | 12 499 | 24 523 |
| | MINERALS INDUSTRIES. | 219 | 61 | 6 555 | 32 754 | 5 152 | 12 147 | 23 709 |
| | INCLUDED IN MANUFACTURES | 40 | 3 | ¹ 176 | ¹ 814 | ¹ 176 | 352 | 814 |
| 10 | METAL MINING | 17 | 5 | 642 | 3 952 | 406 | 831 | 2 076 |
| 13 | OIL AND GAS EXTRACTION | | | | | | | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 10 | - | 144 | 1 099 | 22 | 42 | 123 |
| | NOMETALLIC MINERALS MINING | 242 | 59 | 6 089 | 29 616 | 4 922 | 11 668 | 22 447 |
| 14 | MINERALS INDUSTRIES. | 202 | 56 | 5 913 | 28 802 | 4 746 | 11 316 | 21 633 |
| | INCLUDED IN MANUFACTURES | 40 | 3 | ¹ 176 | ¹ 814 | ¹ 176 | 352 | 814 |
| | CRUSHED AND BROKEN STONE ² | 94 | 26 | 1 817 | 9 279 | 1 596 | 3 932 | 7 634 |
| 1421 | MINERAL INDUSTRY | 76 | 23 | 1 671 | 8 594 | 1 450 | 3 640 | 6 949 |
| | INCLUDED IN MANUFACTURES | 18 | 3 | ¹ 146 | ¹ 685 | ¹ 146 | 292 | 685 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY | 75 | 7 | 633 | 2 277 | 411 | 931 | 1 422 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 6 | 4 | 292 | 1 163 | 257 | 558 | 951 |
| 147 (1475) | CHEMICAL AND FERTILIZER MINERALS AND PHOSPHATE ROCK | 28 | 21 | 3 219 | 16 | 2 540 | 6 010 | 11 997 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 114 519 | ³ 126 954 | 221 754 | (NA) | 6 921 | 87 436 | |
| | MINERAL INDUSTRIES. | 109 010 | 125 749 | 215 040 | 19 719 | 6 694 | 82 652 | |
| | INCLUDED IN MANUFACTURES | 5 509 | ³ 1 205 | ¹ 6 714 | (NA) | ¹ 227 | 4 784 | |
| 10 | METAL MINING | 10 780 | 47 211 | 56 258 | 1 733 | (NA) | (NA) | |
| 13 | OIL AND GAS EXTRACTION | | | | | | | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 587 | 1 257 | 1 356 | 488 | 134 | (⁴) | |
| | NONMETALLIC MINERALS MINING. | 103 739 | ³ 79 743 | ¹ 165 496 | (NA) | (NA) | (NA) | |
| 14 | MINERAL INDUSTRIES | 98 230 | 78 538 | 158 782 | 17 986 | (NA) | (NA) | |
| | INCLUDED IN MANUFACTURES | 5 509 | ³ 1 205 | ¹ 6 714 | (NA) | ¹ 227 | 4 784 | |
| | CRUSHED AND BROKEN STONE ² | ² 26 582 | ³ 11 483 | ¹ 35 138 | (NA) | (NA) | (NA) | |
| 1421 | MINERAL INDUSTRY. | 21 691 | 10 392 | 29 156 | 2 927 | 1 789 | 20 673 | |
| | INCLUDED IN MANUFACTURES. | 4 891 | ³ 1 091 | ¹ 5 982 | (NA) | (NA) | (NA) | |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY. | 5 862 | 3 334 | 7 835 | 1 361 | 664 | 6 622 | |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 3 807 | 1 689 | 4 979 | 517 | (NA) | (NA) | |
| 147 (1475) | CHEMICAL AND FERTILIZER MINERALS AND PHOSPHATE ROCK. | 66 121 | 62 839 | ⁵ 119 016 | ⁵ 14 174 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For 1963, all crushed and broken stone was reported as limestone.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishment, excludes the cost of purchased machinery installed.

⁴Not shown since the cost of supplies, purchases for resale, minerals received for preparation, purchased fuels and electric energy, contract work, and purchased machinery installed exceeded the sum of value of shipments and receipts and capital expenditures.

⁵Includes figures for phosphate rock mined, washed, or concentrated in Pennsylvania, North Carolina, Arkansas, Louisiana, and Texas, amounting to less than 10 percent of this total.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES . | 125 749 | 35 982 | 71 409 | 4 218 | 14 140 | 19 719 | 445 | 19 274 | (X) | (X) | (X) | (X) |
| 14 | NONMETALLIC MINERALS MINING. | 78 538 | 362 601 | (³) | 2 290 | 13 647 | 17 986 | 164 | 17 822 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE (LIMESTONE) | 10 392 | 7 020 | 453 | 997 | 1 922 | 2 927 | 29 | 2 898 | 21 973 | 27 984 | 44 706 | 45 982 |
| 1441 | SAND AND GRAVEL | 3 334 | 31 642 | (³) | 848 | 844 | 1 361 | 20 | 1 341 | 8 446 | 8 710 | 61 306 | (³) |
| 147 | CHEMICAL AND FERTILIZER MINERALS | 62 839 | 352 044 | (³) | 350 | 10 448 | 714 174 | 7979 | 713 195 | (X) | (X) | (X) | (X) |
| 1475 | PHOSPHATE ROCK | 62 839 | 352 044 | (³) | 350 | 10 448 | 714 174 | 7979 | 713 195 | 716 402 | 791 461 | - | - |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Includes figures for stone produced and used in the same establishment in making manufactured products. The value of such stone was estimated. Excludes stone shipped in other mineral industries, amounting to less than 25 percent of the totals shown.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 6.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁷Includes figures for phosphate rock mined, washed, or concentrated in Pennsylvania, North Carolina, Arkansas, Louisiana, and Texas, amounting to less than 10 percent of this total.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 209 | 203 | 34 | 1 | 24 | 9 | 157 | - | 149 | 8 | 12 | 6 |
| | NUMBER OF EMPLOYEES..... | 6 185 | 6 148 | 261 | (D) | (D) | (D) | 5 314 | - | 5 274 | 40 | 573 | 37 |
| | VALUE ADDED IN MINING.....\$1,000.. | 105 846 | 105 766 | 3 926 | (D) | (D) | (D) | 83 266 | - | 83 010 | 256 | 18 574 | 80 |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 195 | 192 | 26 | 1 | 24 | 1 | 154 | - | 146 | 8 | 12 | 3 |
| | NUMBER OF EMPLOYEES..... | 5 682 | 5 668 | 236 | (D) | (D) | (D) | 4 859 | - | 4 819 | 40 | 573 | 14 |
| | VALUE ADDED IN MINING.....\$1,000.. | 97 899 | 97 905 | 3 376 | (D) | (D) | (D) | 75 955 | - | 75 699 | 256 | 18 574 | (²) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 75 | 75 | 4 | - | 4 | - | 65 | - | 65 | - | 6 | - |
| | NUMBER OF EMPLOYEES..... | 1 546 | 1 546 | 27 | - | 27 | - | 1 380 | - | 1 380 | - | 139 | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 21 691 | 21 691 | 308 | - | 308 | - | 19 352 | - | 19 352 | - | 2 031 | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 76 | 73 | 11 | - | 10 | 1 | 61 | - | 53 | 8 | 1 | 3 |
| | NUMBER OF EMPLOYEES..... | 628 | 614 | 63 | - | (D) | (D) | (D) | - | (D) | 40 | (D) | 14 |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 970 | 5 976 | 1 049 | - | (D) | (D) | (D) | - | (D) | 256 | (D) | (²) |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 28 | 28 | 5 | 1 | 4 | - | 18 | - | 18 | - | 5 | - |
| | NUMBER OF EMPLOYEES..... | 3 177 | 3 177 | 129 | (D) | (D) | - | (D) | - | (D) | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 66 121 | 66 121 | 1 865 | (D) | (D) | - | (D) | - | (D) | - | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | | |
| | ALL MINERAL OPERATIONS | 259 | 64 | 6 731 | 33 568 | 5 328 | 12 499 | 24 523 | 114 519 | 126 954 | 221 754 | (NA) | 6 921 | 87 436 |
| | MINERAL INDUSTRIES | 219 | 61 | 6 555 | 32 754 | 5 152 | 12 147 | 23 709 | 109 010 | 125 749 | 215 040 | 19 719 | 6 694 | 82 652 |
| | INCLUDED IN MANUFACTURES ² | 40 | 3 | 176 | 814 | 176 | 352 | 814 | 5 509 | 1 205 | 6 714 | (NA) | 227 | 4 784 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALACHUA COUNTY, TOTAL. | 6 | - | 79 | 368 | 66 | 166 | 297 | 757 | 392 | 1 027 | 122 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | - | 79 | 368 | 66 | 166 | 297 | 757 | 392 | 1 027 | 122 | 126 | 610 |
| | BROWARD COUNTY, TOTAL. | 21 | 5 | 197 | 969 | 142 | 345 | 705 | 2 991 | 1 940 | 4 647 | 284 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 13 | 5 | 160 | 793 | 126 | 305 | 621 | 2 626 | 1 610 | 3 990 | 246 | (NA) | (NA) |
| | CITRUS COUNTY, TOTAL. | 7 | 1 | 133 | 526 | 122 | 303 | 435 | 836 | 305 | 1 081 | 60 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 1 | 133 | 526 | 122 | 303 | 435 | 836 | 305 | 1 081 | 60 | (NA) | (NA) |
| | COLLIER COUNTY, TOTAL. | 7 | - | 23 | 102 | 20 | 46 | 82 | 950 | 612 | 1 514 | 48 | 50 | (NA) |
| | DADE COUNTY, TOTAL. | 26 | 5 | 501 | 2 968 | 316 | 788 | 1 664 | 4 634 | 2 398 | 5 984 | 1 048 | 619 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 13 | 4 | 259 | 1 510 | 211 | 508 | 1 154 | 3 274 | 1 361 | 4 203 | 432 | (NA) | (NA) |
| | GADSDEN COUNTY, TOTAL. | 7 | 4 | 261 | 922 | 223 | 512 | 742 | 3 129 | 1 218 | 3 868 | 479 | 216 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 4 | 261 | 922 | 223 | 512 | 742 | 3 129 | 1 218 | 3 868 | 479 | (NA) | (NA) |
| | HERNANDO COUNTY, TOTAL. | 6 | 5 | 491 | 2 509 | 473 | 1 202 | 2 309 | 5 894 | 2 137 | 7 422 | 609 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 5 | 491 | 2 509 | 473 | 1 202 | 2 309 | 5 894 | 2 137 | 7 422 | 609 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 6 | 5 | 491 | 2 509 | 473 | 1 202 | 2 309 | 5 894 | 2 137 | 7 422 | 609 | 529 | 5 760 |
| | LAKE COUNTY, TOTAL. | 6 | - | 32 | 156 | 17 | 44 | 79 | 846 | 234 | 1 012 | 68 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | - | 32 | 156 | 17 | 44 | 79 | 846 | 234 | 1 012 | 68 | 38 | 310 |
| 144 | SAND AND GRAVEL. | 6 | - | 32 | 156 | 17 | 44 | 79 | 846 | 234 | 1 012 | 68 | (NA) | (NA) |
| | LEVY COUNTY, TOTAL. | 5 | - | 35 | 138 | 33 | 68 | 127 | 434 | 341 | 604 | 171 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | - | 35 | 138 | 33 | 68 | 127 | 434 | 341 | 604 | 171 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 5 | - | 35 | 138 | 33 | 68 | 127 | 434 | 341 | 604 | 171 | 80 | 581 |
| | MANATEE COUNTY, TOTAL. | 5 | 1 | 41 | 167 | 36 | 86 | 145 | 995 | 172 | 776 | 391 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 41 | 167 | 36 | 86 | 145 | 995 | 172 | 776 | 391 | (NA) | (NA) |
| | MARION COUNTY, TOTAL. | 7 | 3 | 235 | 1 038 | 126 | 380 | 373 | 2 676 | 1 822 | 4 206 | 292 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 3 | 173 | 605 | 126 | 380 | 373 | 2 676 | 1 822 | 4 206 | 292 | 231 | 1 375 |
| | PALM BEACH COUNTY, TOTAL. | 5 | - | 8 | 24 | 8 | 14 | 24 | 251 | 109 | 312 | 48 | 35 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | - | 8 | 24 | 8 | 14 | 24 | 251 | 109 | 312 | 48 | (NA) | (NA) |
| | POLK COUNTY, TOTAL. | 36 | 20 | 2 962 | 15 175 | 2 305 | 5 475 | 10 841 | 60 154 | 60 313 | 107 685 | 12 782 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 36 | 20 | 2 916 | 14 806 | 2 305 | 5 475 | 10 841 | 60 154 | 60 313 | 107 685 | 12 782 | 2 971 | 44 190 |
| 147 | CHEMICAL & FERTILIZER MINERALS . . | 17 | 17 | 2 733 | 14 017 | 2 159 | 5 129 | 10 271 | 58 546 | 59 410 | 105 324 | 12 632 | (NA) | (NA) |
| | PUTNAM COUNTY, TOTAL. | 5 | 1 | 64 | 290 | 57 | 121 | 255 | 791 | 596 | 1 084 | 303 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 64 | 290 | 57 | 121 | 255 | 791 | 596 | 1 084 | 303 | 112 | 886 |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represent zero. (D) Withheld to avoid disclosure. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

Industry Groups, for Counties: 1963

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| JACKSON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| LAKE COUNTY, TOTAL | 9 | 6 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 6 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 6 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 6 | 2 | - | - | - | - | - | - |
| LEE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| LEON COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| LEVY COUNTY, TOTAL | 4 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | 1 | - | - | - | - | - | - |
| MANATEE COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | 2 | 1 | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | 2 | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MARION COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | 3 | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 2 | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| MOURE COUNTY, TOTAL | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - |
| OKALOOSA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ORANGE COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | 1 | - |
| PALM BEACH COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | - |
| PASCO COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| PINELLAS COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | 2 | - |
| POLK COUNTY, TOTAL | 40 | 36 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 17 | 3 | - | - | 17 | 2 | - | - | - |
| 0-19 EMPLOYEES | 20 | 16 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 15 | 3 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 6 | 1 | - | - | - |
| 100-249 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - |
| 250 EMPLOYEES AND OVER | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - |
| PUTNAM COUNTY, TOTAL | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 2 | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 1 | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ST LUCIE COUNTY, TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | - | - | - | - | - |
| SANTA ROSA COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SARASOTA COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 1 | - | - | - | - | - | - | - |
| SUMTER COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| SUWANNEE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| TAYLOR COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| VOLUSIA COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 1 | - | - | - | - | - | - |
| WALTON COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| OFFSHORE, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

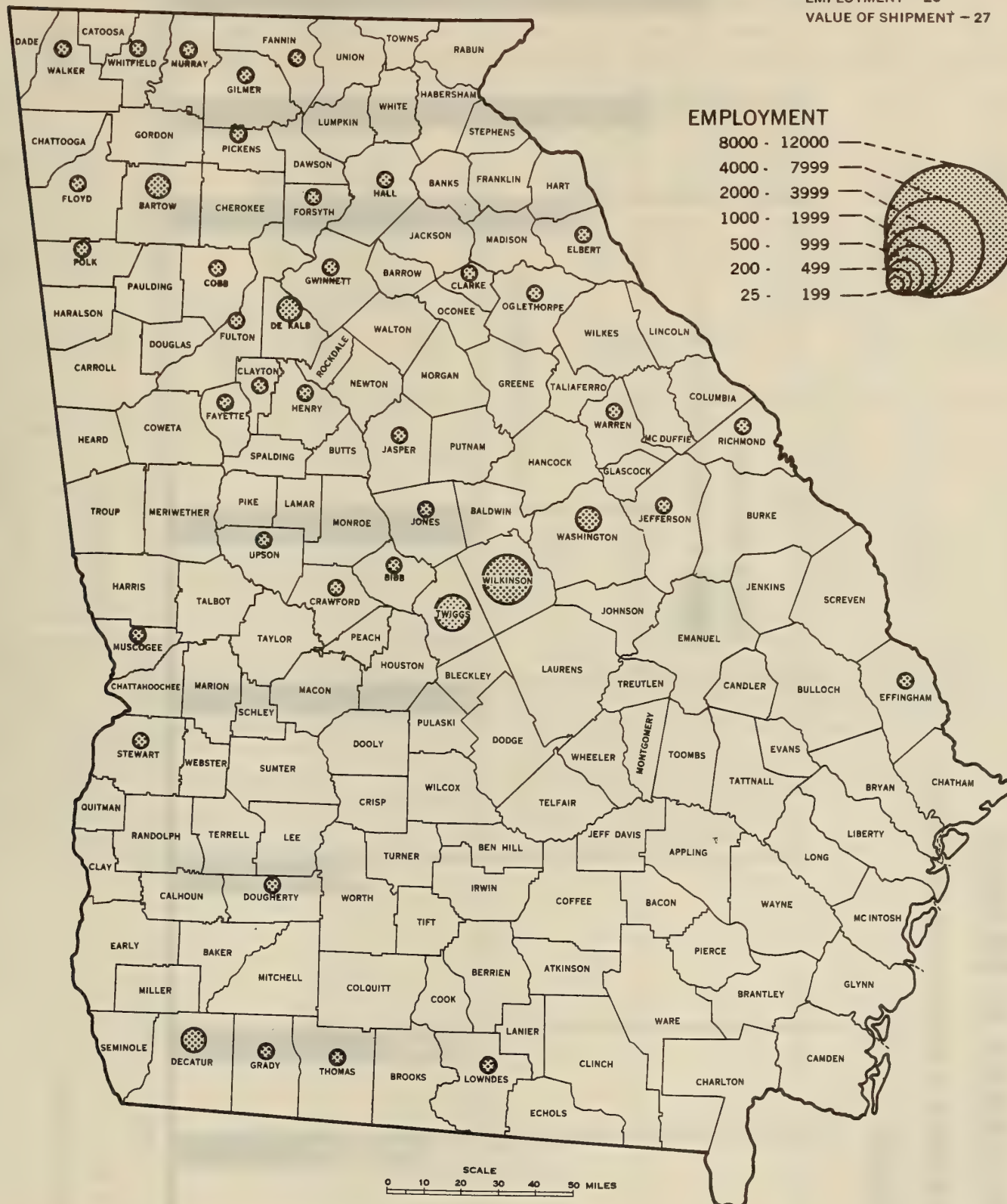
EMPLOYMENT IN MINING BY COUNTY: 1963

GEORGIA

RANK AMONG STATES

EMPLOYMENT - 26

VALUE OF SHIPMENT - 27



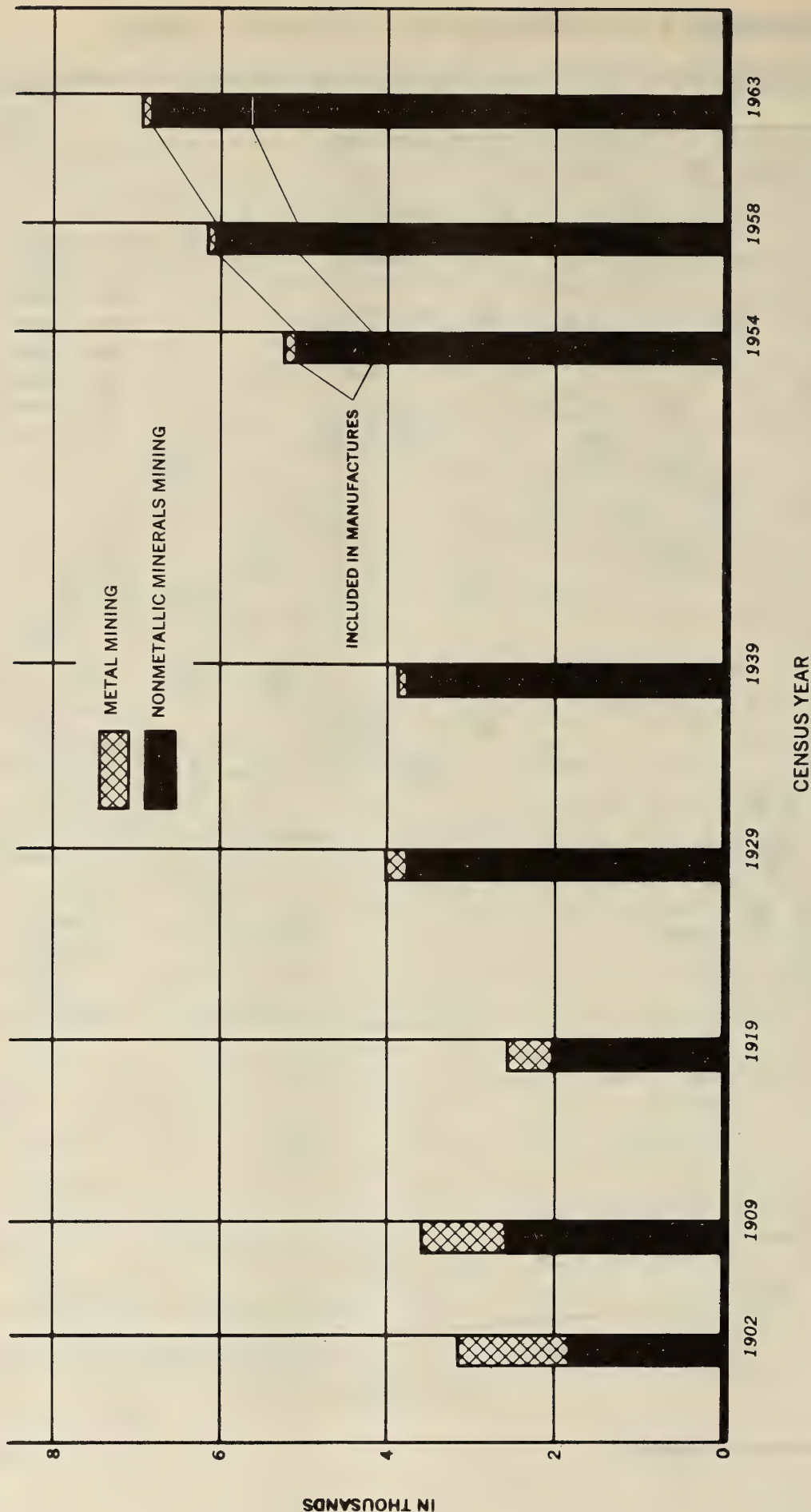
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

GEORGIA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|--|----------------------|-------------------------------|--|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 166 | 63 | 5 650 | 27 078 | 4 926 | 10 656 | 22 198 | 75 814 | |
| 1958. | 173 | 58 | 5 201 | 19 575 | 4 500 | 9 669 | 15 591 | 52 022 | |
| 1954. | 192 | 47 | 4 354 | 13 297 | 3 928 | 8 783 | 10 957 | 32 724 | |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | 218 | 77 | 6 978 | 32 328 | 6 105 | 12 995 | 26 624 | 83 932 | |
| 1958. | 202 | 70 | 6 182 | 22 737 | 5 393 | 11 378 | 18 273 | 58 048 | |
| 1954 ¹ | 220 | 58 | 5 286 | 15 742 | 4 782 | 10 490 | 13 016 | 37 326 | |
| 1939 ² | ³ 110 | (NA) | 3 906 | 2 808 | 3 674 | 7 440 | 2 279 | 5 864 | |
| 1929 ⁴ | 82 | (NA) | 4 026 | 3 647 | 3 752 | (NA) | 2 969 | 7 473 | |
| 1919 ⁵ | 74 | (NA) | 2 575 | 2 372 | 2 397 | (NA) | 2 017 | 3 082 | |
| 1909 ⁵ | 94 | (NA) | 3 606 | 1 468 | 3 411 | (NA) | 1 278 | 2 472 | |
| 1902 ⁶ | ³ 158 | (NA) | 3 171 | 1 319 | ⁷ 2 860 | (NA) | 1 101 | 2 421 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 30 061 | 1 163 | 1 432 | 7 747 | 106 741 | 9 476 | 3 211 | 652 | 357 |
| 1958. | 21 546 | 879 | 1 128 | 6 996 | 74 746 | 7 825 | 1 880 | 418 | (NA) |
| 1954. | 11 167 | 613 | 1 297 | 4 192 | 43 439 | 6 554 | 1 317 | 335 | 164 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | ⁹ 34 089 | 2 008 | ⁹ 1 519 | ¹⁰ 8 097 | 119 739 | ¹⁰ 9 906 | ¹⁰ 3 211 | 652 | 10357 |
| 1958. | ⁹ 23 322 | ⁹ 879 | ⁹ 1 151 | ¹⁰ 7 278 | 82 545 | ¹⁰ 8 133 | ¹⁰ 1 905 | 353 | (NA) |
| 1954 ¹ | ⁹ 12 160 | 647 | ⁹ 1 311 | ¹⁰ 4 309 | 49 066 | ¹⁰ 6 687 | ¹⁰ 1 339 | 280 | ¹⁰ 176 |
| 1939 ² | 2 204 | (NA) | 130 | (NA) | 8 198 | (NA) | 770 | 210 | 49 |
| 1929 ⁴ | 1 792 | (NA) | 346 | 188 | (NA) | (NA) | 952 | 254 | 36 |
| 1919 ⁵ | 947 | 18 | 35 | (NA) | 4 082 | (NA) | ¹¹ 464 | 194 | 13 |
| 1909 ⁵ | 401 | — | 2 | (NA) | 2 875 | (NA) | (NA) | (NA) | 11 |
| 1902 ⁶ | 573 | (NA) | 123 | (NA) | 3 117 | (NA) | (NA) | (NA) | 10 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Excludes data for dimension stone dressing plants operated in conjunction with quarries and for one nonproducing bauxite mine.

³Represents number of mines and quarries and, for mining services industries, number of operating companies.

⁴Excludes data for common clay and shale mining operations. In 1939, there were 11 such mines with products valued at \$168 thousand.

⁵Excludes data for common sand and gravel mining operation, limestone quarries operated as parts of cement and lime plants, and for nonproducing establishments. In 1929, there were 5 such sand and gravel establishments with products valued at \$172 thousand, and 3 such limestone quarries. See also footnote 4.

⁶Excludes data for sand, gravel, common clay, and shale mining operations. Includes data for 2 cement plants and for lime plants producing lime valued at \$72 thousand.

⁷Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. Also for 1958, the cost of minerals received for preparation at dimension stone operations in manufacturing industries is included with supplies.

¹⁰Excludes data for crushed and broken stones, sand and gravel, and clay mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 2 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 218 | 77 | 6 978 | 32 328 | 6 105 | 12 995 | 26 624 |
| | MINERAL INDUSTRIES | 166 | 63 | 5 650 | 27 078 | 4 926 | 10 656 | 22 198 |
| | INCLUDED IN MANUFACTURES | 52 | 14 | 1 328 | 15 250 | 1 179 | 2 339 | 4 426 |
| 10 | METAL MINING | 19 | 2 | 126 | 451 | 107 | 201 | 362 |
| 14 | NONMETALLIC MINERALS MINING | 195 | 75 | 6 846 | 31 866 | 5 993 | 12 787 | 26 252 |
| | MINERAL INDUSTRIES | 144 | 61 | 5 518 | 26 616 | 4 814 | 10 448 | 21 826 |
| | INCLUDED IN MANUFACTURES | 52 | 14 | 1 328 | 15 250 | 1 179 | 2 339 | 4 426 |
| 141 | DIMENSION STONE | 39 | 16 | 1 367 | 5 126 | 1 213 | 2 388 | 4 291 |
| | MINERAL INDUSTRY | 15 | 3 | 140 | 392 | 135 | 244 | 381 |
| | INCLUDED IN MANUFACTURES | 24 | 13 | 1 227 | 4 734 | 1 078 | 2 144 | 3 910 |
| 142 | DIMENSION GRANITE (MINERAL SUB- INDUSTRY) | 10 | 3 | 127 | 361 | 123 | 225 | 353 |
| | CRUSHED AND BROKEN STONE: | 37 | 30 | 1 789 | 8 339 | 1 602 | 3 725 | 7 034 |
| | MINERAL INDUSTRY | | | | | | | |
| 142 | CRUSHED AND BROKEN LIMESTONE: | 10 | 8 | 310 | 1 650 | 280 | 820 | 1 356 |
| | MINERAL SUBINDUSTRY | | | | | | | |
| | CRUSHED AND BROKEN GRANITE SUB- INDUSTRY | 18 | 15 | 1 012 | 4 731 | 909 | 2 234 | 4 000 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY | 9 | 7 | 467 | 1 958 | 413 | 671 | 1 678 |
| 1441 | SAND AND GRAVEL | 62 | 5 | 1361 | 1 231 | 1299 | 641 | 953 |
| | MINERAL INDUSTRY | 50 | 5 | 354 | 1 204 | 293 | 627 | 926 |
| 145 | CLAY AND RELATED MINERALS: | 27 | 20 | 2 966 | 15 527 | 2 555 | 5 344 | 12 603 |
| | MINERAL INDUSTRIES | 16 | 1 | 144 | 1558 | 137 | 269 | 498 |
| 1455 | CLAY AND RELATED MINERALS: N.E.C.. | 18 | 12 | 2 334 | 12 894 | 2 009 | 4 224 | 10 536 |
| 149 | MISCELLANEOUS MINERALS: N.E.C. | 8 | 1 | 104 | 369 | 96 | 194 | 293 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 83 932 | 2 45 713 | 119 739 | 3 9 906 | 6 182 | 58 048 |
| | MINERAL INDUSTRIES | 75 814 | 40 403 | 106 741 | 9 476 | 5 201 | 52 022 |
| | INCLUDED IN MANUFACTURES | 8 118 | 2 5 310 | 12 998 | 3 430 | 2 981 | 6 026 |
| 10 | METAL MINING | 1 395 | 870 | 1 919 | 346 | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | 82 520 | 2 44 839 | 117 799 | 3 9 560 | 6 074 | 57 188 |
| | MINERAL INDUSTRIES | 74 402 | 39 529 | 104 801 | 9 130 | 5 093 | 51 162 |
| | INCLUDED IN MANUFACTURES | 8 118 | 2 5 310 | 12 998 | 3 430 | 1 981 | 6 026 |
| 141 | DIMENSION STONE | 7 475 | 5 406 | 12 401 | 480 | 1 106 | 4 751 |
| | MINERAL INDUSTRY | 582 | 378 | 910 | 50 | 266 | 1 147 |
| | INCLUDED IN MANUFACTURES | 6 893 | 5 028 | 11 491 | 430 | 840 | 3 604 |
| 142 | DIMENSION GRANITE (MINERAL SUB- INDUSTRY) | 514 | 339 | 816 | 37 | 636 | 2 868 |
| | CRUSHED AND BROKEN STONE: | 23 166 | 15 718 | 35 578 | 3 306 | 1 424 | 17 898 |
| | MINERAL INDUSTRY | | | | | | |
| | CRUSHED AND BROKEN LIMESTONE: | 4 103 | 2 485 | 6 152 | 436 | 193 | 2 435 |
| | MINERAL SUBINDUSTRY | | | | | | |
| | CRUSHED AND BROKEN GRANITE SUB- INDUSTRY | 12 652 | 9 940 | 20 265 | 2 327 | 778 | 9 009 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY | 6 411 | 3 293 | 9 161 | 543 | 453 | 6 454 |
| 1441 | SAND AND GRAVEL | 3 149 | 2 1 719 | 14 211 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 2 995 | 1 702 | 4 040 | 657 | 463 | 3 776 |
| 145 | CLAY AND RELATED MINERALS: | 44 415 | 20 511 | 60 141 | 4 785 | 2 672 | 26 149 |
| | MINERAL INDUSTRIES | 1 238 | 2 497 | 11 717 | (NA) | 1 142 | 2 011 |
| 1455 | CLAY AND RELATED MINERALS: N.E.C.. | 37 338 | 15 560 | 49 069 | 3 829 | 2 157 | 20 963 |
| 149 | MISCELLANEOUS MINERALS: N.E.C. | 1 111 | 369 | 1 440 | 60 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|-----------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES.. | 40 403 | 30 061 | 1 163 | 1 432 | 7 747 | 9 476 | 571 | 8 905 | (X) | (X) | (X) | (X) |
| 14 | NONMETALLIC MINERALS MINING.. | 39 529 | ³ 30 780 | (³) | 1 323 | 7 426 | 9 130 | 526 | 8 604 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE.. | 15 718 | ³ 12 268 | (³) | 255 | 3 195 | 3 306 | 62 | 3 244 | 17 933 | 33 587 | ⁴ 163 | ⁴ 352 |
| | CRUSHED AND BROKEN LIMESTONE.. | 2 485 | ³ 2 096 | (³) | 114 | 275 | 436 | 12 | 424 | 2 078 | 5 069 | (⁴) | (⁴) |
| | CRUSHED AND BROKEN GRANITE.. | 9 940 | 7 717 | — | 8 | 2 215 | 2 327 | 50 | 2 277 | 13 788 | 19 816 | 41 | 72 |
| | CRUSHED AND BROKEN STONE, N.E.C.. | 3 293 | 2 455 | — | 133 | 705 | 543 | — | 543 | 2 067 | 8 702 | ⁴ 122 | ⁴ 280 |
| 145 | CLAY AND RELATED MINERALS.. | 20 511 | ³ 16 177 | (³) | 838 | 3 496 | 4 785 | 440 | 4 345 | (X) | (X) | (X) | (X) |
| 1455 | KAOLIN AND BALL CLAY.. | 15 560 | ³ 12 289 | (³) | 478 | 2 793 | 3 829 | 430 | 3 399 | 2 337 | ⁵ 50 524 | 25 | (⁵) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Excludes figures for minerals produced and used in the same establishment. No shipments of crushed and broken limestone in other industries were reported.⁵Figures for value of shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|---|------------------------------------|--------------------------|--------------------|--------------------|------------------|---|-------------------------------|--------------------|-----------------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 14 | ALL MINERAL INDUSTRIES NUMBER OF ESTABLISHMENTS..... NUMBER OF EMPLOYEES..... VALUE ADDED IN MINING.....\$1,000.. | 163 5 583 75 699 | 160 5 576 75 654 | 60 311 2 568 | 1 (D) (D) | 58 (D) (D) | 1 (D) (D) | 97 5 168 71 044 | 5 347 4 560 | 86 4 621 64 367 | 6 200 2 117 | 3 97 2 042 | 4 |
| 142 | NONMETALLIC MINERALS MINING NUMBER OF ESTABLISHMENTS..... NUMBER OF EMPLOYEES..... VALUE ADDED IN MINING.....\$1,000.. | 142 5 453 74 309 | 140 (D) (D) | 50 284 2 138 | - (D) (D) | 49 (D) (D) | 1 (D) (D) | 88 5 075 70 179 | 4 (D) (D) | 78 (D) (D) | 6 200 2 117 | 2 (D) (D) | (D) (D) |
| 144 | CRUSHED AND BROKEN STONE NUMBER OF ESTABLISHMENTS..... NUMBER OF EMPLOYEES..... VALUE ADDED IN MINING.....\$1,000.. | 37 1 773 23 166 | 37 1 773 23 166 | - - - | - - - | - - - | - (D) (D) | 36 (D) (D) | 4 (D) (D) | 31 1 335 16 014 | 1 (D) (D) | 1 (D) (D) | - |
| 145 | SAND AND GRAVEL NUMBER OF ESTABLISHMENTS..... NUMBER OF EMPLOYEES..... VALUE ADDED IN MINING.....\$1,000.. | 50 337 2 995 | 50 337 2 995 | 25 (D) (D) | - (D) (D) | 24 (D) (D) | 1 (D) (D) | 24 225 1 903 | - - - | 20 133 1 264 | 4 (D) (D) | 1 (D) (D) | - |
| 145 | CLAY AND RELATED MINERALS NUMBER OF ESTABLISHMENTS..... NUMBER OF EMPLOYEES..... VALUE ADDED IN MINING.....\$1,000.. | 27 2 966 44 415 | 27 2 966 44 415 | 6 51 295 | - - - | 6 51 295 | - - - | 21 2 915 44 120 | - - - | 21 2 915 44 120 | - - - | - - - | - |

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 218 | 77 | 6 978 | 32 328 | 6 105 | 12 995 | 26 624 | 83 932 | 45 713 | 119 739 | 9 906 | 6 182 | 58 048 |
| | MINERAL INDUSTRIES | 166 | 63 | 5 650 | 27 078 | 4 926 | 10 656 | 22 198 | 75 814 | 40 403 | 106 741 | 9 476 | 5 201 | 52 022 |
| | INCLUDED IN MANUFACTURES ² | 52 | 14 | 1 328 | 5 250 | 1 179 | 2 339 | 4 426 | 8 118 | 5 310 | 12 998 | 430 | 981 | 6 026 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BARTOW COUNTY, TOTAL | 14 | 5 | 332 | 1 737 | 280 | 693 | 1 321 | 4 539 | 2 674 | 6 877 | 336 | 218 | 3 118 |
| 10 14 142 | METAL MINING | 5 | - | 41 | 147 | 31 | 52 | 89 | 307 | 234 | 524 | 17 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 9 | 5 | 275 | 1 402 | 249 | 641 | 1 232 | 4 232 | 2 440 | 6 353 | 319 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE | 3 | 3 | 137 | 774 | 127 | 352 | 703 | 2 145 | 1 612 | 3 711 | 46 | (NA) | (NA) |
| | DOUGHERTY COUNTY, TOTAL | 6 | 1 | 49 | 159 | 45 | 107 | 154 | 425 | 242 | 548 | 119 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 6 | 1 | 49 | 159 | 45 | 107 | 154 | 425 | 242 | 548 | 119 | 50 | 263 |
| | ELBERT COUNTY, TOTAL | 7 | 1 | 96 | 307 | 91 | 164 | 293 | 488 | 280 | 747 | 21 | 102 | 543 |
| 14 | NONMETALLIC MINERALS MINING | 7 | 1 | 96 | 307 | 91 | 164 | 293 | 488 | 280 | 747 | 21 | 102 | 543 |
| | MUSCOGEE COUNTY, TOTAL | 4 | 2 | 128 | 501 | 109 | 260 | 395 | 1 346 | 1 345 | 2 582 | 109 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 2 | 128 | 501 | 109 | 260 | 395 | 1 346 | 1 345 | 2 582 | 109 | 85 | 430 |
| | STEWART COUNTY, TOTAL | 6 | 2 | 64 | 213 | 58 | 115 | 193 | 723 | 499 | 906 | 316 | 19 | 423 |
| 10 101 | METAL MINING | 6 | 2 | 64 | 213 | 58 | 115 | 193 | 723 | 499 | 906 | 316 | (NA) | (NA) |
| | IRON ORES | 6 | 2 | 64 | 213 | 58 | 115 | 193 | 723 | 499 | 906 | 316 | (NA) | (NA) |
| | WALKER COUNTY, TOTAL | 7 | 1 | 66 | 273 | 55 | 114 | 204 | 610 | 443 | 899 | 154 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 1 | 60 | 262 | 50 | 107 | 194 | 595 | 439 | 880 | 154 | (NA) | (NA) |
| | WASHINGTON COUNTY, TOTAL | 6 | 6 | 420 | 2 342 | 349 | 733 | 1 822 | 7 429 | 3 331 | 9 598 | 1 162 | (NA) | (NA) |
| 14 145 | NONMETALLIC MINERALS MINING | 6 | 6 | 420 | 2 342 | 349 | 733 | 1 822 | 7 429 | 3 331 | 9 598 | 1 162 | (NA) | (NA) |
| | CLAY AND RELATED MINERALS | 6 | 6 | 420 | 2 342 | 349 | 733 | 1 822 | 7 429 | 3 331 | 9 598 | 1 162 | 404 | 4 019 |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|----------------------------------|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| GEORGIA, TOTAL | 218 | 166 | 52 | 13 | - | - | - | 5 | - | 1 | - | - | - | 3 | - | - | - | - | 15 | 24 | 37 | 2 | 50 | 12 | 27 | 14 | 5 | 2 | 8 | - |
| NO EMPLOYEES | 28 | 23 | 5 | 3 | - | - | - | 3 | - | - | - | - | - | 2 | - | - | - | - | 5 | 2 | - | 1 | 11 | 5 | 1 | 1 | 1 | - | - | - |
| 1-4 EMPLOYEES | 48 | 29 | 19 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 5 | 2 | - | 1 | 16 | 7 | 1 | 9 | - | 1 | 3 | - |
| 5-9 EMPLOYEES | 34 | 27 | 7 | 4 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 | 4 | 3 | - | 10 | 2 | 3 | 3 | 2 | 1 | 2 | - |
| 10-19 EMPLOYEES | 31 | 24 | 7 | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 2 | 5 | 4 | - | 8 | 3 | 2 | 2 | 1 | 1 | 1 | - |
| 20-49 EMPLOYEES | 44 | 37 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 6 | 5 | 17 | 5 | 9 | 5 | 1 | 1 | 1 | 1 | - |
| 50-99 EMPLOYEES | 22 | 17 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | - | 5 | 1 | 1 | 1 | 1 | - |
| 100-249 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 | - | - | - | - | - |
| 500-999 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| BALDWIN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - |
| BARTOW COUNTY, TOTAL | 14 | 14 | - | 3 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | 5 | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | 3 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 3 | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | 2 | - | - | - |
| BIBB COUNTY, TOTAL | 7 | 4 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 2 | 2 | 1 | - | - | - |
| 0-19 EMPLOYEES | 5 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 2 | 2 | 1 | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - |
| BROOKS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| CAMDEN COUNTY TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| CHATHAM COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | 1 | - | - | - | - | - | - |
| CHATTOOGA COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| CHEROKEE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| CLARKE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CLAYTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| COBB COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| COLUMBIA COUNTY TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| COLQUITT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| COOK COUNTY TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| CRAWFORD COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| DECATUR COUNTY, TOTAL | 5 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |
| DE KALB COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 3 | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| DOOLY COUNTY, TOTAL | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| DOUGHERTY COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| EFFINGHAM COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| ELBERT COUNTY, TOTAL | 24 | 7 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 17 | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 6 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 7 | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 10 | 1 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| EVANS COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - |
| FANNIN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| FAYETTE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SEMINOLE COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| STEWART COUNTY: TOTAL | 6 | 6 | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| SUMTER COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | |
| TALBOT COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| TAYLOR COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| TELFAIR COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| THOMAS COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| TWIGGS COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | - | - | |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | |
| UPSON COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| WALKER COUNTY: TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | 1 | 3 | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | 1 | 2 | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | |
| WARE COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| WARREN COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| WASHINGTON COUNTY: TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| WHITE COUNTY: TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | |
| WHITFIELD COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| WILKINSON COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | |
| UNDISTRIBUTED: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

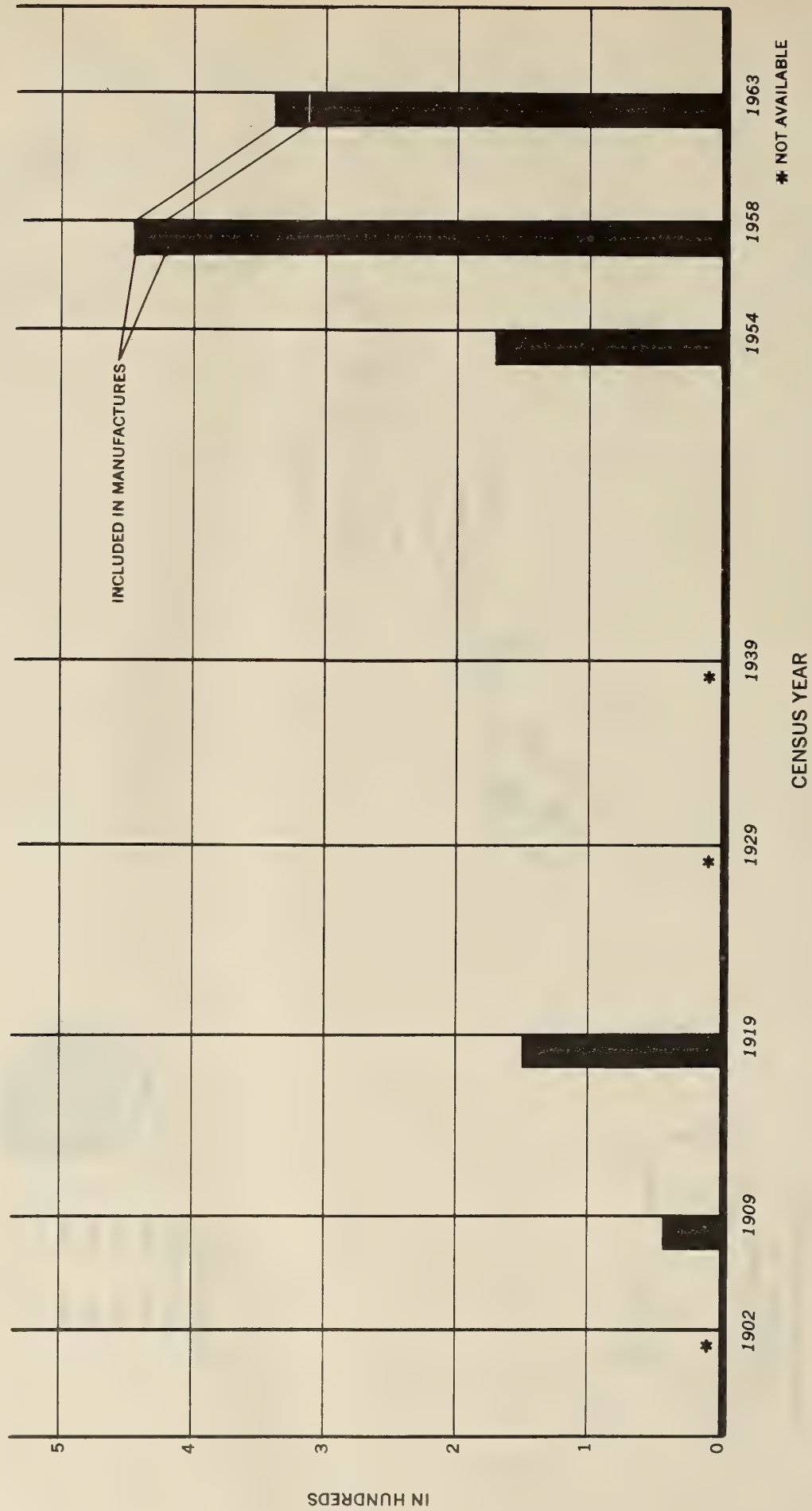
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

HAWAII



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|---------------------------------------|--|--|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 44 | 4 | 315 | 1 658 | 228 | 560 | 1 451 | 4 909 | |
| 1958 | 20 | 8 | 421 | 1 724 | 367 | 746 | 1 426 | 4 550 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 49 | 4 | 339 | 1 758 | 312 | 607 | 1 551 | 5 677 | |
| 1958 | 24 | 8 | 445 | 1 820 | 391 | 793 | 1 522 | 4 887 | |
| 1954 ¹ | 13 | 2 | 171 | 598 | 156 | 320 | 517 | 1 266 | |
| 1919 | 5 | (NA) | 151 | 95 | 145 | (NA) | 89 | 202 | |
| 1909 | 26 | (NA) | 43 | 14 | 43 | (NA) | 14 | 16 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ³ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 1 639 | - | 177 | 320 | 6 525 | 520 | 43 | 149 | 44 |
| 1958 | 1 205 | - | 128 | 668 | 5 847 | 704 | 64 | 174 | (NA) |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 41 808 | - | 4177 | 5320 | 7 462 | 5520 | 543 | 149 | 544 |
| 1958 | 41 228 | - | 4128 | 5668 | 6 207 | 5704 | 564 | 164 | (NA) |
| 1954 ¹ | 349 | - | 4130 | 5226 | 1 778 | 5193 | 519 | 122 | 15 |
| 1919 | 49 | - | - | (NA) | 251 | (NA) | (NA) | (NA) | (Z) |
| 1909 | 5 | - | - | (NA) | 21 | (NA) | (NA) | (NA) | (Z) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
(Z) Less than one-half of the unit of measure specified.

¹Excludes data for any sand and gravel mining operations in manufacturing establishments.

²Represents number of mines and quarries.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment.

⁴For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁵Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|---------------------------------------|--|---|--------------------------------------|--|---------------------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 14 | ALL MINERAL OPERATIONS (NONMETALLIC MINERALS MINING) | 49 | 4 | 339 | 1 758 | 312 | 607 | 1 551 |
| | MINERAL INDUSTRIES. | 44 | 4 | 315 | 1 658 | 288 | 560 | 1 451 |
| | INCLUDED IN MANUFACTURES. | 5 | - | 24 | 100 | 24 | 47 | 100 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 24 | 4 | 285 | 1 599 | 261 | 512 | 1 397 |
| | CRUSHED AND BROKEN STONE: N.E.C. (MINERAL SUBINDUSTRY). | 19 | 4 | 278 | 1 567 | 255 | 497 | 1 368 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) | |
| | | | | | | | | |
| 14 | ALL MINERAL OPERATIONS (NONMETALLIC MINERALS MINING) | 5 677 | ² 305 | ¹ 462 | (NA) | 445 | 4 887 | |
| | MINERAL INDUSTRIES. | 4 909 | 2 136 | 6 525 | 520 | 421 | 4 550 | |
| | INCLUDED IN MANUFACTURES. | 768 | ² 169 | ¹ 937 | (NA) | 124 | 337 | |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 4 094 | 1 887 | 5 524 | 457 | 326 | 3 631 | |
| | CRUSHED AND BROKEN STONE: N.E.C. (MINERAL SUBINDUSTRY). | 3 958 | 1 831 | 5 350 | 439 | 227 | 3 196 | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. | 2 136 | 1 639 | - | 177 | 320 | 520 | 18 | 502 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING . | 2 136 | 1 639 | - | 177 | 320 | 520 | 18 | 502 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . | 1 887 | 1 577 | - | 42 | 268 | 457 | 16 | 441 | 2 185 | 4 598 | (D) | (D) |
| | CRUSHED AND BROKEN STONE, N.E.C. | 1 831 | 1 527 | - | 36 | 268 | 439 | 16 | 423 | 2 024 | 4 424 | (D) | (D) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 14 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 44 | 44 | 18 | - | 18 | - | 24 | - | 23 | 1 | 2 | - |
| | NUMBER OF EMPLOYEES..... | 315 | 315 | (D) | - | (D) | - | 254 | - | (D) | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 909 | 4 909 | (D) | - | (D) | - | 4 013 | - | (D) | (D) | (D) | - |
| | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 44 | 44 | 18 | - | 18 | - | 24 | - | 23 | 1 | 2 | - |
| 142 | NUMBER OF EMPLOYEES..... | 315 | 315 | (D) | - | (D) | - | 254 | - | (D) | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 909 | 4 909 | (D) | - | (D) | - | 4 013 | - | (D) | (D) | (D) | - |
| | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 24 | 24 | 3 | - | 3 | - | 19 | - | 19 | - | 2 | - |
| | NUMBER OF EMPLOYEES..... | 267 | 267 | 9 | - | 9 | - | (D) | - | (D) | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 861 | 3 861 | 175 | - | 175 | - | (D) | - | (D) | - | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | 1958 | | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 49 | 4 | 339 | 1 758 | 312 | 607 | 1 551 | 5 677 | 2 305 | 7 462 | (NA) | 445 | 4 887 |
| | MINERAL INDUSTRIES | 44 | 4 | 315 | 1 658 | 288 | 560 | 1 451 | 4 909 | 2 136 | 6 525 | 520 | 421 | 4 550 |
| | INCLUDED IN MANUFACTURES ² | 5 | - | 24 | 100 | 24 | 47 | 100 | 768 | 169 | 937 | (NA) | 24 | 337 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | HAWAII COUNTY: TOTAL | 18 | 2 | 105 | 692 | 102 | 242 | 681 | 1 147 | 497 | 1 568 | 76 | 94 | 926 |
| 14 | NONMETALLIC MINERALS MINING | 18 | 2 | 105 | 692 | 102 | 242 | 681 | 1 147 | 497 | 1 568 | 76 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 11 | 2 | 89 | 658 | 88 | 217 | 650 | 900 | 394 | 1 244 | 50 | (NA) | (NA) |
| | HONOLULU COUNTY: TOTAL | 9 | 2 | 152 | 774 | 138 | 227 | 623 | 2 809 | 634 | 3 154 | 289 | 291 | 3 469 |
| 14 | NONMETALLIC MINERALS MINING | 9 | 2 | 152 | 774 | 138 | 227 | 623 | 2 809 | 634 | 3 154 | 289 | (NA) | (NA) |
| | MAUI COUNTY: TOTAL | 9 | - | 48 | 163 | 39 | 72 | 123 | 782 | 919 | 1 591 | 110 | 36 | 155 |
| 14 | NONMETALLIC MINERALS MINING | 9 | - | 48 | 163 | 39 | 72 | 123 | 782 | 919 | 1 591 | 110 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.
²See table 2A footnotes 1 and 2.
³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by
Industry Groups, for Counties: 1963

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services

109 Miscellaneous metal ores
110 Anthracite
111 Anthracite mining services
120 Bituminous coal and lignite
121 Coal mining services
131 Crude petroleum and natural gas
132 Natural gas liquids

138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures

145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| HAWAII: TOTAL | 49 | 44 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 24 | 3 | 5 | - | - | 2 | - | - | 12 | - |
| NO EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 4 | - | - | - | - | - | 7 | - |
| 1-4 EMPLOYEES | 16 | 13 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 8 | 1 | 1 | - | - | 2 | - | - | 3 | - |
| 5-9 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 1 | - | - | - | - | - | - | 2 | - |
| 10-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | - | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 50-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| HAWAII COUNTY: TOTAL | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 11 | - | - | - | - | - | - | - | 5 | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 9 | - | - | - | - | - | - | - | 5 | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| HONOLULU COUNTY: TOTAL | 14 | 9 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 3 | 1 | - | - | 2 | - | - | 1 | - |
| 0-19 EMPLOYEES | 12 | 7 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | 3 | 1 | - | - | 2 | - | - | 1 | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| KAUAI COUNTY: TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | - | 1 | - |
| MAUI COUNTY: TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | 5 | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | 5 | - |
| OFFSHORE: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

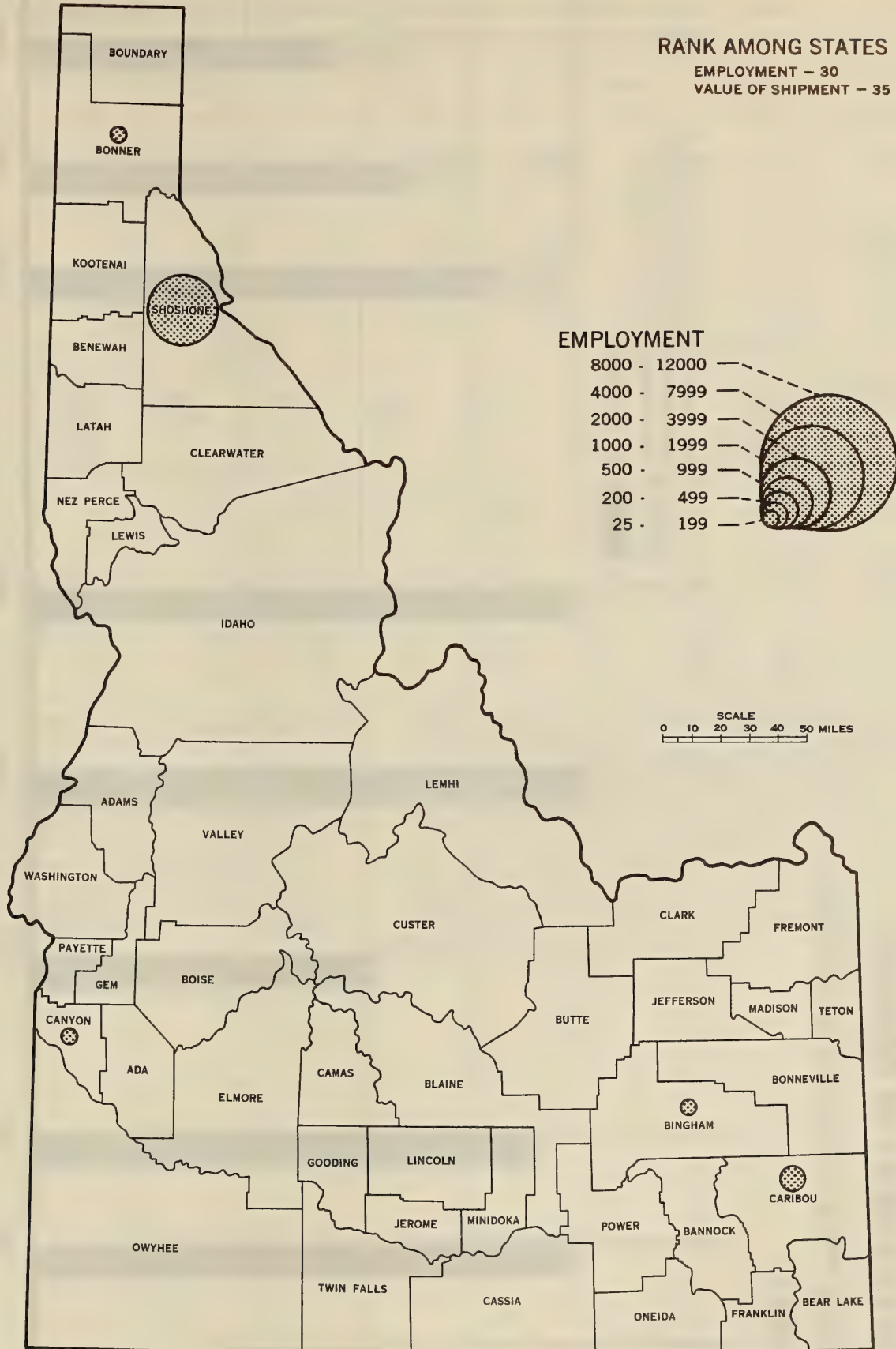
EMPLOYMENT IN MINING BY COUNTY: 1963

IDAHO

RANK AMONG STATES

EMPLOYMENT - 30

VALUE OF SHIPMENT - 35



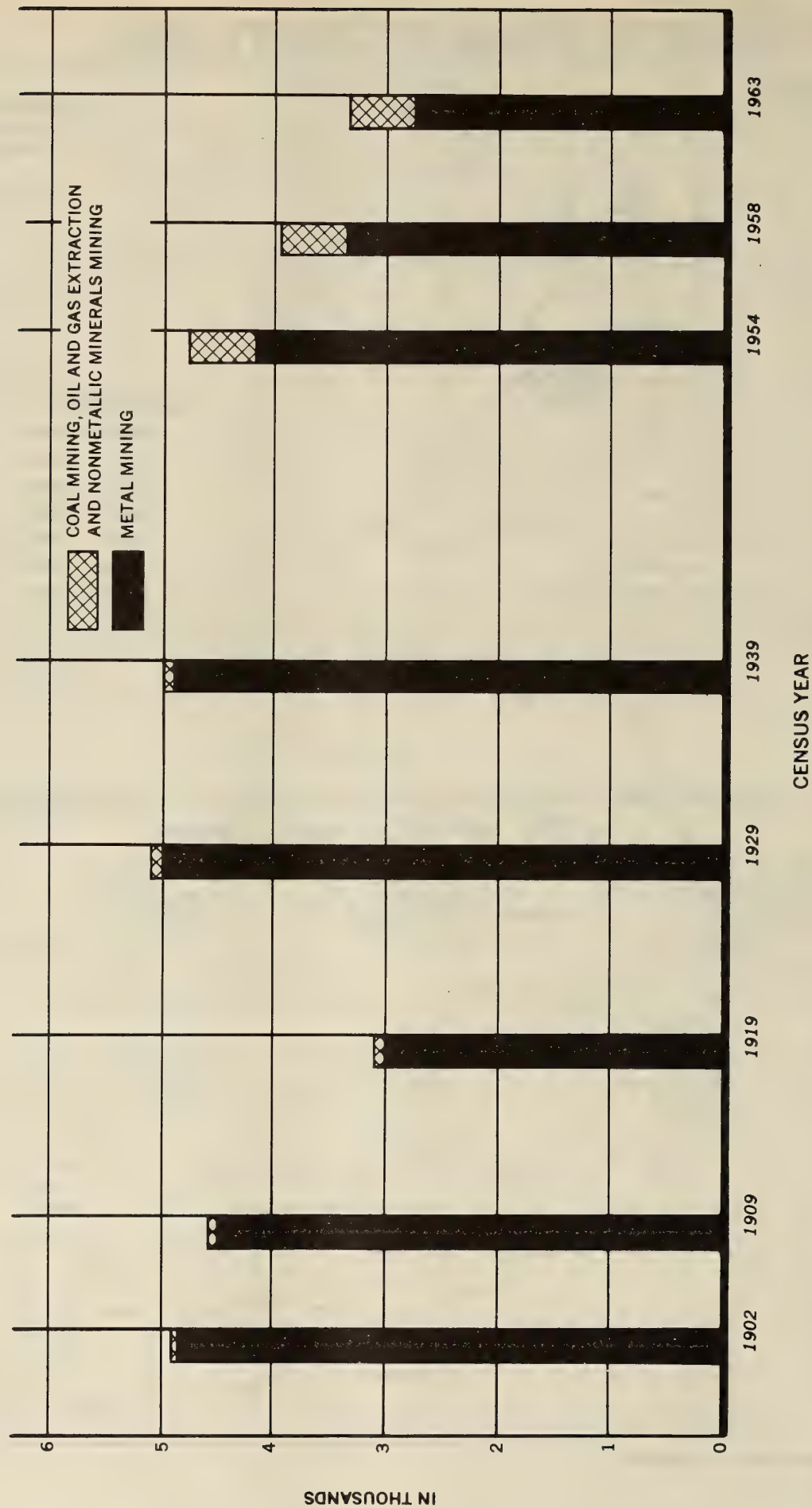
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

IDAHO



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 145 | 14 | 3 256 | 19 119 | 2 780 | 5 488 | 15 465 | 40 122 | |
| 1958 | 170 | 22 | 3 932 | 20 886 | 3 305 | 6 344 | 16 366 | 36 815 | |
| 1954 | 249 | 28 | 4 767 | 22 358 | 4 121 | 8 622 | 18 664 | 38 558 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 155 | 14 | 3 349 | 19 495 | 2 873 | 5 673 | 15 841 | 42 309 | |
| 1958 | 183 | 22 | 3 979 | 21 085 | 3 352 | 6 436 | 16 565 | 38 427 | |
| 1954 ² | 257 | 28 | 4 781 | 22 405 | 4 135 | 8 651 | 18 711 | 38 737 | |
| 1939 | 116 | (NA) | 5 049 | 8 146 | 4 654 | 9 753 | 7 086 | 18 952 | |
| 1929 | 153 | (NA) | 5 114 | 9 055 | 4 777 | (NA) | 8 254 | 15 593 | |
| 1919 ⁴ | 132 | (NA) | 3 123 | 5 385 | 2 828 | (NA) | 4 735 | 8 654 | |
| 1909 ⁴ | 890 | (NA) | 4 599 | 5 889 | 4 324 | (NA) | 5 348 | 5 533 | |
| 1902 ⁴ | 617 | (NA) | 4 949 | 5 542 | 54 415 | (NA) | 4 801 | 5 982 | |
| Kind of operation and year | Selected expenses | | | | | | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ⁶ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 711 988 | (7) | 3 587 | 1 383 | 51 942 | 5 138 | 456 | 164 | 162 |
| 1958 | 11 392 | 2 147 | 3 446 | 1 195 | 52 084 | 2 911 | 580 | 175 | (NA) |
| 1954 | 11 477 | 2 672 | 1 787 | 3 254 | 51 883 | 5 820 | 527 | 128 | 223 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 7812 237 | (7) | 83 587 | 31 383 | 54 378 | 55 138 | 9456 | 164 | 162 |
| 1958 | 811 538 | 92 147 | 85 446 | 31 195 | 53 842 | 92 911 | 9580 | 173 | (NA) |
| 1954 ² | 811 498 | 92 672 | 81 787 | 33 256 | 52 083 | 95 822 | 9527 | 127 | 223 |
| 1939 | 4 335 | (NA) | 102 | (NA) | 23 389 | (NA) | 233 | 50 | 83 |
| 1929 | 4 847 | (NA) | 306 | 1 014 | 20 746 | (NA) | 300 | 63 | 73 |
| 1919 ⁴ | 2 970 | - | 216 | (NA) | 11 840 | (NA) | 181 | 64 | 35 |
| 1909 ⁴ | 2 796 | - | 320 | (NA) | 8 649 | (NA) | (NA) | (NA) | 31 |
| 1902 ⁴ | 2 031 | (NA) | 202 | (NA) | 8 215 | (NA) | (NA) | (NA) | 19 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry. No data were obtained for 1954 on the value of shipments and cost of ores received for milling by this industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

³Represents number of mines and quarries and, for mining services industries, number of operating companies.

⁴Excludes data for sand and gravel operations, and for 1919 and 1909, any stone quarries in cement and lime establishments. Only one sand and gravel operation was reported for 1929, and no such stone quarries.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of "Minerals received for preparation." For all other years the figures represent net production (or net shipments for copper, lead, zinc, gold, and silver ores) and exclude this duplication.

⁷Figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electric energy.

⁸For crushed and broken stone, sand and gravel, and clay mining operations (and for 1958, dimension stone quarries) in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹⁰Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 40 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 155 | 14 | 3 349 | 19 495 | 2 873 | 5 673 | 15 841 |
| | MINERAL INDUSTRIES. | 145 | 14 | 3 256 | 19 119 | 2 780 | 5 488 | 15 465 |
| | INCLUDED IN MANUFACTURES. | 10 | - | ¹ 93 | ¹ 376 | 193 | 185 | 376 |
| 10 | METAL MINING. | 85 | 10 | 2 771 | 16 076 | 2 352 | 4 626 | 12 950 |
| 1031 | LEAD AND ZINC ORES. | 29 | 4 | 1 726 | 9 870 | 1 466 | 2 954 | 7 939 |
| 104 | GOLD AND SILVER ORES. | 37 | 5 | 988 | 5 939 | 843 | 1 599 | 4 825 |
| 1044 | SILVER ORES. | 16 | 5 | 963 | 5 857 | 822 | 1 561 | 4 746 |
| 14 | NONMETALLIC MINERALS MINING. | 70 | 4 | 578 | 3 419 | 521 | 1 047 | 2 891 |
| | MINERAL INDUSTRIES. | 60 | 4 | 485 | 3 043 | 428 | 862 | 2 515 |
| | INCLUDED IN MANUFACTURES. | 10 | - | ¹ 93 | ¹ 376 | 193 | 185 | 376 |
| | CRUSHED AND BROKEN STONE: ² | | | | | | | |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY. | 8 | - | 33 | 147 | 30 | 54 | 145 |
| 1441 | SAND AND GRAVEL. | 36 | - | 195 | 895 | 190 | 377 | 869 |
| | MINERAL INDUSTRY. | 28 | - | 107 | 542 | 102 | 201 | 516 |
| | INCLUDED IN MANUFACTURES. | 8 | - | ¹ 88 | ¹ 353 | ¹ 88 | 176 | 353 |

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS. | 42 309 | ² 17 207 | ¹ 54 378 | (NA) | 3 979 | 38 427 |
| | MINERAL INDUSTRIES. | 40 122 | 16 958 | 51 942 | 5 138 | 3 932 | 36 815 |
| | INCLUDED IN MANUFACTURES. | 2 187 | ² 249 | ¹ 2 436 | (NA) | ¹ 47 | 1 612 |
| 10 | METAL MINING. | 31 357 | 11 808 | 39 335 | 3 830 | 3 372 | 30 255 |
| 1031 | LEAD AND ZINC ORES. | 14 195 | 5 215 | 18 486 | 924 | 1 946 | 11 701 |
| 104 | GOLD AND SILVER ORES. | 17 124 | 4 637 | 20 573 | 1 188 | 907 | 9 606 |
| 1044 | SILVER ORES. | 17 052 | 4 465 | 20 524 | 993 | 878 | 9 588 |
| 14 | NONMETALLIC MINERALS MINING. | 10 952 | ² 5 399 | ¹ 15 043 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRIES. | 8 765 | 5 150 | 12 607 | 1 308 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES. | 2 187 | ² 249 | ¹ 2 436 | (NA) | ¹ 47 | 146 |
| | CRUSHED AND BROKEN STONE: ² | | | | | | |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY. | 239 | 332 | 507 | 64 | (NA) | (NA) |
| 1441 | SAND AND GRAVEL. | 3 122 | ² 823 | ¹ 3 780 | (NA) | 212 | 3 102 |
| | MINERAL INDUSTRY. | 1 133 | 602 | 1 570 | 165 | 178 | 1 760 |
| | INCLUDED IN MANUFACTURES. | 1 989 | ² 221 | ¹ 2 210 | (NA) | ¹ 34 | 1 342 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|-------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 16 958 | 311 988 | (³) | 3 587 | 1 383 | 5 138 | 1 684 | 3 454 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 11 808 | 39 358 | (³) | 1 655 | 795 | 3 830 | 1 683 | 2 147 | (x) | (x) | (x) | (x) |
| 1031 | LEAD AND ZINC ORES. | 5 215 | 4 984 | - | 17 | 214 | 924 | 710 | 214 | 4 984 | 217 940 | (NA) | (⁵) |
| 104 | GOLD AND SILVER ORES. | 4 637 | 4 127 | (³) | 153 | 357 | 1 188 | 945 | 243 | (x) | (x) | (x) | (x) |
| 1044 | SILVER ORES. | 4 465 | 4 074 | (³) | 142 | 249 | 993 | 885 | 108 | 4 507 | 220 926 | (NA) | (⁵) |
| 14 | NONMETALLIC MINERALS MINING . | 5 150 | 2 630 | - | 1 932 | 588 | 1 308 | 1 | 1 307 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents crude ore mined, hence, not directly comparable with the value of net shipments of ores and concentrates shown in succeeding columns.⁵Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.**TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963**

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 140 | 95 | 31 | 12 | 19 | - | 63 | 13 | 47 | 3 | 1 | 4 |
| | NUMBER OF EMPLOYEES..... | 3 062 | 2 957 | (D) | (D) | (D) | - | 2 799 | 2 492 | 305 | 2 | (D) | 10 |
| | VALUE ADDED IN MINING.....\$1,000.. | 39 065 | 39 028 | (D) | (D) | (D) | - | 37 402 | 30 973 | 6 410 | 19 | (D) | 3 |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 82 | 38 | 20 | 12 | 8 | - | 17 | 13 | 4 | - | 1 | 4 |
| | NUMBER OF EMPLOYEES..... | 2 661 | (D) | (D) | (D) | (D) | - | 2 493 | 2 492 | 1 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 31 263 | (D) | (D) | (D) | (D) | - | 31 011 | 30 973 | 38 | - | (D) | (D) |
| 103 | LEAD AND ZINC ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 29 | 16 | 9 | 7 | 2 | - | 7 | 6 | 1 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 1 667 | 1 629 | (D) | (D) | (D) | - | (D) | (D) | (D) | - | - | 3 |
| | VALUE ADDED IN MINING.....\$1,000.. | 14 195 | 14 196 | (D) | (D) | (D) | - | (D) | (D) | (D) | - | - | (2) |
| 104 | GOLD AND SILVER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 37 | 15 | 6 | 4 | 2 | - | 9 | 7 | 2 | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | 946 | 894 | 7 | (D) | (D) | - | 887 | (D) | (D) | - | - | 5 |
| | VALUE ADDED IN MINING.....\$1,000.. | 17 124 | 16 971 | 48 | (D) | (D) | - | 16 923 | (D) | (D) | - | - | 15 |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 58 | 57 | 11 | - | 11 | - | 46 | - | 43 | 3 | - | - |
| | NUMBER OF EMPLOYEES..... | 401 | (D) | (D) | - | (D) | - | 306 | - | 304 | 2 | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 768 | (D) | (D) | - | (D) | - | 6 391 | - | 6 372 | 19 | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|------------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| 10 103 104 | ALL MINERAL OPERATIONS | 155 | 14 | 3 349 | 19 495 | 2 873 | 5 673 | 15 841 | 42 309 | 17 209 | 54 398 | (NA) | 3 979 | 38 427 |
| | MINERAL INDUSTRIES | 145 | 14 | 3 256 | 19 119 | 2 780 | 5 488 | 15 465 | 40 122 | 16 958 | 51 942 | 5 138 | 3 932 | 36 815 |
| | INCLUDED IN MANUFACTURES ² | 10 | - | 93 | 376 | 93 | 185 | 376 | 2 187 | 249 | 2 436 | (NA) | 47 | 1 612 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | CARIBOU COUNTY, TOTAL | 7 | 4 | 234 | 1 615 | 203 | 409 | 1 324 | 4 900 | 5 103 | 7 534 | 2 469 | (NA) | (NA) |
| | SHOSHONE COUNTY, TOTAL | 38 | 8 | 2 538 | 14 578 | 2 244 | 4 409 | 12 412 | 31 061 | 9 387 | 38 868 | 1 580 | (NA) | (NA) |
| | METAL MINING | 34 | 8 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | LEAD AND ZINC ORES | 23 | 4 | 1 649 | 9 378 | 1 451 | 2 925 | 7 889 | 14 163 | 5 102 | 18 403 | 862 | 1 649 | 10 019 |
| | GOLD AND SILVER ORES | 8 | 4 | 875 | 5 129 | 781 | 1 461 | 4 461 | 16 724 | 4 207 | 20 220 | 711 | 833 | 9 224 |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|--|------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|---|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| IDAHO, TOTAL | 155 | 145 | 10 | 1 | 4 | 29 | 37 | - | 2 | 3 | 9 | - | - | - | - | - | - | - | 1 | - | 11 | 1 | 28 | 8 | 3 | 1 | 4 | 2 | 11 | - | |
| NO EMPLOYEES | 37 | 37 | - | 1 | 1 | 5 | 12 | - | 1 | - | 5 | - | - | - | - | - | - | - | - | - | 2 | - | 8 | - | 1 | - | - | - | - | 1 | |
| 1-4 EMPLOYEES | 73 | 69 | 4 | - | 2 | 15 | 19 | - | 1 | 3 | 3 | - | - | - | - | - | - | - | 1 | - | 4 | 1 | 10 | 2 | - | 1 | 1 | 1 | 9 | - | |
| 5-9 EMPLOYEES | 21 | 14 | 3 | - | 1 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 8 | 3 | 1 | - | - | - | 1 | - | |
| 10-19 EMPLOYEES | 10 | 7 | 3 | - | - | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 3 | 1 | - | - | - | - | - | |
| 20-49 EMPLOYEES | 3 | 3 | - | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 50-99 EMPLOYEES | 3 | 5 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | |
| 100-249 EMPLOYEES | 3 | 3 | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 250-499 EMPLOYEES | 2 | 2 | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 500-999 EMPLOYEES | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| ADA COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | 2 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | 2 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | |
| ADAMS COUNTY, TOTAL | 2 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| BANNOCK COUNTY, TOTAL | 5 | 3 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | 1 | - | |
| BEAR LAKE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | |
| BENEWAH COUNTY, TOTAL | 4 | 4 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 4 | 4 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - |
| BINGHAM COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| BLAINE COUNTY, TOTAL | 5 | 5 | - | - | - | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| BOISE COUNTY, TOTAL | 5 | 5 | - | - | - | - | 4 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | 4 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BONNER COUNTY, TOTAL | 7 | 7 | - | - | - | - | 3 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BONNEVILLE COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | 2 | - |
| BOUNDARY COUNTY, TOTAL | 2 | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| BUTTE COUNTY, TOTAL | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CAMAS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CANYON COUNTY, TOTAL | 10 | 9 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 7 | 1 | - | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 10 | 9 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 7 | 1 | - | - | - | - | - | 2 | - |
| CARIBOU COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | 2 | 1 | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - |
| CASSIA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| CUSTER COUNTY, TOTAL | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ELMORE COUNTY, TOTAL | 2 | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| FRANKLIN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FREMONT COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| LEWIS COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| LINCOLN COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| MADISON COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| MINIDOKA COUNTY: TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| NEZ PERCE COUNTY: TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | - |
| ONEIDA COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| OWYHEE COUNTY: TOTAL | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SHOSHONE COUNTY: TOTAL | 38 | 38 | - | - | - | 23 | 8 | - | - | 3 | 2 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 30 | 30 | - | - | - | 19 | 4 | - | - | 3 | 2 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 3 | 3 | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 3 | 3 | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TWIN FALLS COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| VALLEY COUNTY: TOTAL | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

ILLINOIS

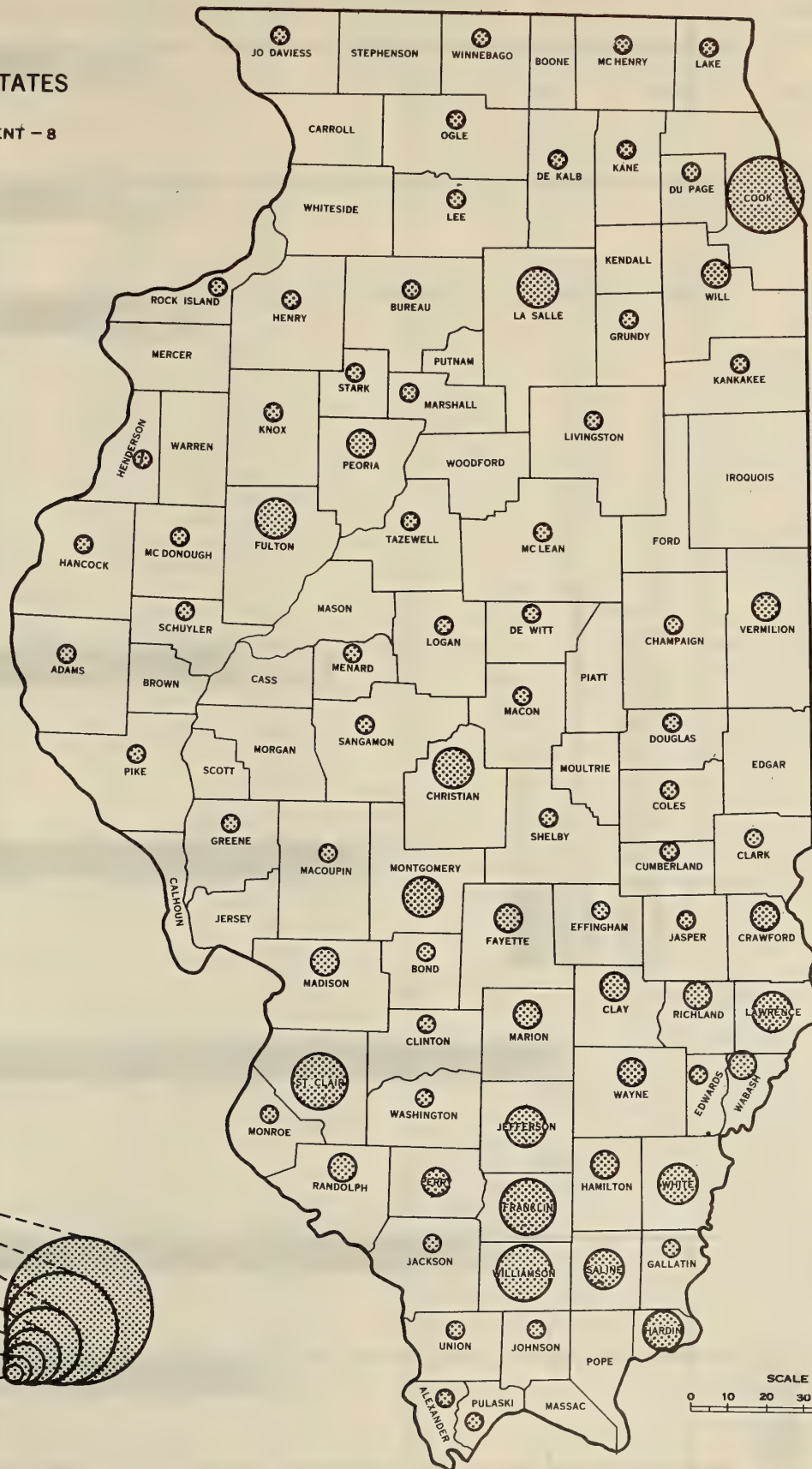
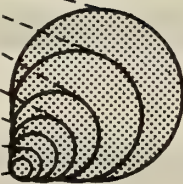
RANK AMONG STATES

EMPLOYMENT - 8

VALUE OF SHIPMENT - 8

EMPLOYMENT

8000 - 12000
4000 - 7999
2000 - 3999
1000 - 1999
500 - 999
200 - 499
25 - 199

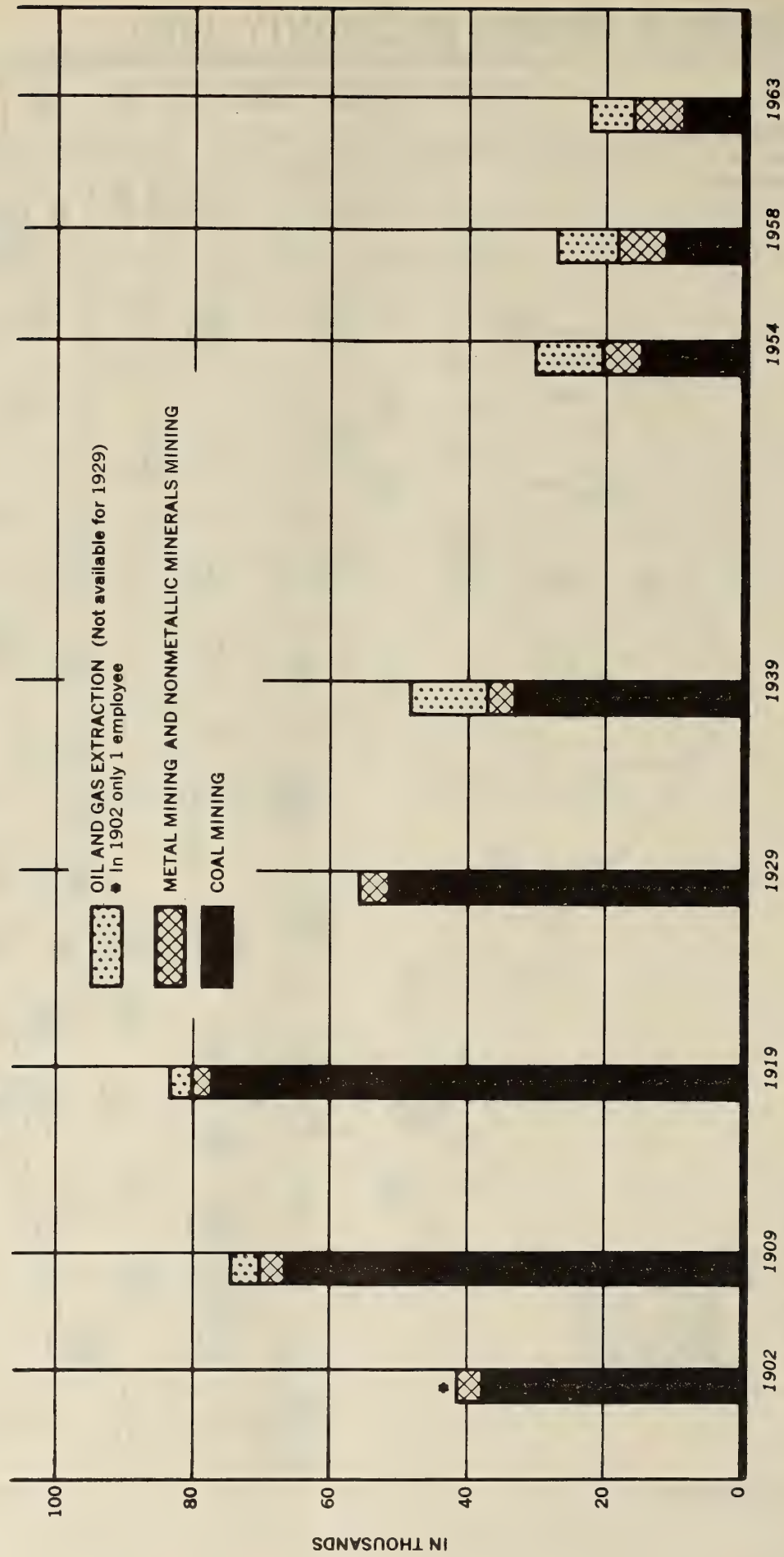


SCALE
0 10 20 30 40 50 MILES

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

ILLINOIS



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|----------------|---------------------------|---------------|-----------|--|-----------|-----------|------------------------------------|
| | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | |
| | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 1 447 | 209 | 22 043 | 135 418 | 18 025 | 36 341 | 106 714 | 450 534 |
| 1953. | 1 323 | 253 | 27 112 | 142 651 | 22 848 | 43 151 | 113 007 | 452 357 |
| 1954. | 1 345 | 470 | 30 157 | 126 947 | 26 627 | 43 697 | 107 174 | 375 191 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | 1 521 | 215 | 22 675 | 133 394 | 13 657 | 37 593 | 109 690 | 461 558 |
| 1953. | 1 375 | 258 | 27 482 | 144 359 | 23 218 | 43 891 | 114 715 | 462 230 |
| 1954 ¹ | 1 384 | 269 | 30 494 | 123 189 | 26 964 | 49 370 | 103 516 | 373 595 |
| 1939 ² | 31 233 | (NA) | 48 887 | 65 418 | 44 422 | 68 509 | 54 325 | 165 538 |
| 1919 ⁴ | 772 | (NA) | 83 618 | 104 303 | 79 123 | (NA) | 94 179 | 153 649 |
| 1909 ⁴ | 995 | (NA) | 74 662 | 49 524 | 72 131 | (NA) | 46 410 | 64 291 |
| 1902 ⁵ | 31 107 | (NA) | 41 859 | 23 578 | 640 040 | (NA) | 26 726 | 34 106 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | 534 | 145 | 16 202 | 106 765 | 13 212 | 27 146 | 34 463 | 246 320 |
| 1953. | 576 | 154 | 13 465 | 105 481 | 15 603 | 30 226 | 33 837 | 232 858 |
| 1954 ¹ | 615 | 157 | 20 533 | 88 244 | 13 397 | 32 858 | 75 624 | 138 373 |
| 1939 ⁷ | 3847 | (NA) | 37 436 | 46 318 | 34 573 | 50 807 | 39 334 | 70 803 |
| 1929 ¹ | 536 | (NA) | 56 126 | 30 560 | 53 415 | (NA) | 73 818 | 112 497 |
| 1919 ⁴ | 536 | (NA) | 80 561 | 100 283 | 76 371 | (NA) | 90 901 | 124 633 |
| 1909 ⁴ | 668 | (NA) | 70 577 | 46 461 | 63 358 | (NA) | 43 734 | 51 925 |
| 1902 ⁵ | 31 083 | (NA) | 41 358 | 23 577 | 640 039 | (NA) | 26 725 | 34 104 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
|--|---|--|---------------|-------------------------------|--|----------------------|-------------------------------|-----------------------|--------------------------------------|
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation ⁸ | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | (million) | (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 96 209 | 93 679 | 21 332 | 44 715 | 654 513 | 56 951 | 5 412 | 300 | 1 596 |
| 1958. | 93 866 | 31 294 | 28 071 | 31 155 | 633 774 | 52 969 | 8 647 | 373 | (NA) |
| 1954. | 77 040 | 23 804 | 41 728 | 33 327 | 492 465 | 63 625 | 7 909 | 297 | 1 429 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 1098 799 | 98 679 | 1021 332 | 1144 715 | 663 120 | 1156 951 | 115 412 | 11300 | 11 596 |
| 1953. | 10100 060 | 81 294 | 1023 071 | 1131 155 | 649 341 | 1152 969 | 113 648 | 372 | (NA) |
| 1954 ¹ | 1077 936 | 23 804 | 1041 728 | 1138 327 | 496 315 | 1163 625 | 117 909 | 293 | 11 429 |
| 1939 ² | 23 710 | (NA) | 22 406 | (NA) | 211 654 | (NA) | 8 705 | 196 | 339 |
| 1919 ⁴ | 24 500 | 92 | 432 | (NA) | 173 673 | (NA) | 1216 645 | 210 | 318 |
| 1909 ⁴ | 9 823 | 102 | 2 443 | (NA) | 76 655 | (NA) | (NA) | (NA) | 226 |
| 1902 ⁵ | 3 333 | (NA) | 26 | (NA) | 37 465 | (NA) | (NA) | (NA) | 96 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 10 1337 096 | (13) | 103 731 | 1132 486 | 336 141 | 1133 492 | 113 343 | 11253 | 11 060 |
| 1958. | 10 1377 693 | (13) | 103 480 | 1117 554 | 307 707 | 1123 373 | 112 309 | 180 | (NA) |
| 1954 ¹ | 1045 943 | 21 221 | 105 445 | 1115 530 | 259 635 | 1116 932 | 112 927 | 159 | 11929 |
| 1939 ⁷ | 19 336 | (NA) | 288 | (NA) | 90 477 | (NA) | 7 057 | 204 | 642 |
| 1929 ¹ | 20 173 | (NA) | 273 | 8 240 | 132 943 | (NA) | 9 163 | 172 | 440 |
| 1919 ⁴ | 22 653 | - | 73 | (NA) | 147 409 | (NA) | 1216 043 | 210 | 233 |
| 1909 ⁴ | 5 709 | 99 | 140 | (NA) | 57 763 | (NA) | (NA) | (NA) | 186 |
| 1902 ⁵ | 3 333 | (NA) | 25 | (NA) | 37 462 | (NA) | (NA) | (NA) | 96 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for any sand and gravel mining operations in manufacturing establishments.

²Excludes data for dimension stone dressing operations, if any, in conjunction with one dimension limestone quarry.

³Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for sand, gravel, common clay, and shale mining operations and limestone quarries operated as parts of cement and lime plants. There were 137 such mines and quarries in 1939 with products valued at \$5,822 thousand. For 1919, excludes data for one nonproducing establishment. For "Excluding oil and gas extraction industries" in 1909, except for number of establishments, includes data for nonproducing crude petroleum and natural gas operations.

⁵Excludes data for sand, gravel, common clay, and shale mining operations and limestone quarries operated as parts of cement plants. Includes data for lime plants producing lime valued at \$486 thousand.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes data for 5 nonproducing mines. See also footnote 2.

⁸For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants, but for 1954 includes the estimated value prior to processing of natural gas liquids contained in such gas.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For dimension stone in manufactures in 1963, the cost of contract work and purchased machinery installed minus capital expenditures was also included.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments. For 1963, also exclude data for dimension stone in manufactures.

¹²Excludes purchased electric energy. For 1939, the quantity of purchased electric energy for "All operations" amounted to only 3 percent of the total kwh equivalent of energy used; and for 1929 for "Excluding oil and gas extraction industries," to only 2 percent.

¹³Figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electricity.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------------|---|---------------------------------------|--|---|--------------------------------------|--|---------------------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 521 | 215 | 22 675 | 138 394 | 18 657 | 37 593 | 109 690 |
| | MINERAL INDUSTRIES | 1 447 | 209 | 22 043 | 135 418 | 18 025 | 36 341 | 106 714 |
| | INCLUDED IN MANUFACTURES | 74 | 6 | ¹ 632 | ¹ 2 976 | ¹ 632 | 1 252 | 2 976 |
| 12 | BITUMINOUS COAL MINING | 106 | 67 | 8 993 | 65 382 | 7 872 | 15 693 | 56 711 |
| 1211 | BITUMINOUS COAL. | 103 | 67 | 8 988 | 65 370 | 7 867 | 15 688 | 56 699 |
| 13 | OIL AND GAS EXTRACTION | 937 | 70 | 6 473 | 31 629 | 5 445 | 10 447 | 25 222 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 683 | 43 | 4 268 | 22 507 | 3 474 | 6 643 | 17 146 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 127 | 16 | 1 254 | 5 273 | 1 173 | 2 263 | 4 946 |
| | METAL MINING AND NONMETALLIC | | | | | | | |
| | MINERALS MINING | 478 | 78 | 7 209 | 41 383 | 5 340 | 11 453 | 27 757 |
| 10 & 14 | MINERAL INDUSTRIES | 404 | 72 | 6 577 | 38 407 | 4 708 | 10 201 | 24 781 |
| | INCLUDED IN MANUFACTURES | 74 | 6 | ¹ 632 | ¹ 2 976 | ¹ 632 | 1 252 | 2 976 |
| | CRUSHED AND BROKEN STONE ² | 163 | 35 | 2 722 | 15 800 | 2 300 | 5 082 | 12 170 |
| 142 | MINERAL INDUSTRY | 150 | 32 | 2 478 | 14 514 | 2 056 | 4 594 | 10 884 |
| | INCLUDED IN MANUFACTURES | 13 | 3 | ¹ 244 | ¹ 1 286 | ¹ 244 | 488 | 1 286 |
| | SAND AND GRAVEL. | 232 | 29 | 2 316 | 13 084 | 1 851 | 3 964 | 9 974 |
| 144 | MINERAL INDUSTRY | 209 | 28 | 2 150 | 12 370 | 1 685 | 3 632 | 9 260 |
| | INCLUDED IN MANUFACTURES | 23 | 1 | ¹ 166 | ¹ 714 | ¹ 166 | 332 | 714 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 199 | 23 | 1 658 | 9 067 | 1 309 | 2 820 | 7 001 |
| | INDUSTRIAL SAND, SUBINDUSTRY ³ . . . | 10 | 5 | 492 | 3 303 | 376 | 812 | 2 259 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 13 | 3 | 195 | 1 031 | 183 | 412 | 964 |
| | FIRE CLAY. | 11 | 1 | ¹ 119 | ¹ 620 | ¹ 118 | 242 | 613 |
| 1459 | CLAY AND RELATED MINERALS. | 39 | 3 | 278 | 1 309 | 267 | 563 | 1 249 |
| | MINERAL INDUSTRY | 8 | 3 | 170 | 896 | 159 | 362 | 836 |
| | INCLUDED IN MANUFACTURES | 31 | - | 108 | 413 | 108 | 201 | 413 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) | |
| | ALL MINERAL OPERATIONS | 461 558 | 263 525 | ¹ 668 120 | (NA) | 27 482 | 462 230 | |
| | MINERAL INDUSTRIES | 450 534 | 260 935 | 654 518 | 56 951 | 27 112 | 452 357 | |
| | INCLUDED IN MANUFACTURES | 11 024 | ⁴ 2 590 | ¹ 13 602 | (NA) | ¹ 370 | 9 873 | |
| 12 | BITUMINOUS COAL MINING | 156 983 | 76 098 | 209 150 | 23 931 | 11 140 | 138 898 | |
| 1211 | BITUMINOUS COAL. | 156 944 | 76 083 | 209 098 | 23 929 | 11 139 | 138 893 | |
| 13 | OIL AND GAS EXTRACTION | 215 238 | 140 200 | 331 979 | 23 459 | 9 017 | 229 372 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 186 903 | 50 702 | 216 457 | 21 148 | 6 089 | 195 517 | |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 11 118 | 6 022 | 15 602 | 1 538 | (NA) | (NA) | |
| | METAL MINING AND NONMETALLIC | | | | | | | |
| | MINERALS MINING | 89 337 | ⁴ 47 215 | 126 991 | (NA) | 7 325 | 93 960 | |
| 10 & 14 | MINERAL INDUSTRIES | 78 313 | 44 637 | 113 389 | 9 561 | 6 955 | 84 087 | |
| | INCLUDED IN MANUFACTURES | 11 024 | ⁴ 2 578 | ¹ 13 602 | (NA) | ¹ 370 | 9 873 | |
| | CRUSHED AND BROKEN STONE ² | 42 823 | ⁴ 18 123 | ¹ 56 499 | (NA) | 2 796 | 45 358 | |
| 142 | MINERAL INDUSTRY | 38 445 | 16 778 | 50 786 | 4 447 | 2 669 | 41 725 | |
| | INCLUDED IN MANUFACTURES | 4 368 | ⁴ 1 345 | ¹ 5 713 | (NA) | ¹ 127 | 3 633 | |
| | SAND AND GRAVEL. | 31 352 | ⁴ 14 166 | ¹ 41 035 | (NA) | 2 439 | 36 769 | |
| 144 | MINERAL INDUSTRY | 27 322 | 13 720 | 36 559 | 4 483 | 2 370 | 32 745 | |
| | INCLUDED IN MANUFACTURES | 4 030 | ⁴ 446 | ¹ 4 476 | (NA) | 69 | 4 024 | |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 18 788 | 10 479 | 25 813 | 3 454 | ⁵ 2 069 | ⁵ 27 984 | |
| | INDUSTRIAL SAND, SUBINDUSTRY ³ . . . | 8 534 | 3 241 | 10 746 | 1 029 | ⁵ 301 | ⁵ 4 761 | |

See footnotes at end of table.

**TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued**

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 14 | METAL MINING AND NONMETALLIC MINERALS MINING—CONTINUED | | | | | | |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 2 051 | 1 545 | 3 334 | 262 | ⁶ 137 | 850 |
| | FIRE CLAY. | 1 239 | ⁴ 618 | ¹ 1 808 | (NA) | ² 81 | 686 |
| | CLAY AND RELATED MINERALS. | 3 379 | 1 678 | 4 844 | (NA) | 225 | 2 360 |
| 1459 | MINERAL INDUSTRY | 1 852 | 1 320 | 2 959 | 213 | 116 | 758 |
| | INCLUDED IN MANUFACTURES | 1 527 | 358 | 1 885 | (NA) | ¹ 109 | 1 602 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For 1963, all establishments reported were classified in the Crushed and Broken Limestone Subindustry.

³Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C. Subindustries.

⁴For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed. For dimension stone only, includes cost of purchased machinery installed minus capital expenditures.

⁵Figures for the Industrial Sand Subindustries are included with those for the Construction Sand and Gravel Subindustry.

⁶Includes figures for separately reported central offices in the Bentonite Industry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|---------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES . | 260 935 | 96 209 | 98 679 | 21 332 | 44 715 | 56 951 | 10 932 | 46 019 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING . . . | 76 098 | 39 910 | 11 187 | 1 367 | 23 634 | 23 931 | 469 | 23 462 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL. | 76 083 | 39 899 | 11 187 | 1 366 | 23 631 | 23 929 | 469 | 23 460 | 52 245 | 198 362 | - | - |
| 13 | OIL AND GAS EXTRACTION . . . | 140 200 | ³ 110 370 | (³) | 17 601 | 12 229 | 23 459 | 10 317 | 13 142 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 50 702 | 23 006 | - | 16 934 | 10 762 | 21 148 | 10 232 | 10 916 | (x) | 214 006 | (x) | 1 385 |
| 1381 | OIL AND GAS EXTRACTION: DRILLING OIL AND GAS WELLS | 6 022 | 4 680 | - | 489 | 853 | 1 538 | 85 | 1 453 | (x) | ⁴ 15 326 | (x) | (⁴) |
| 10 & 14 | METAL MINING AND NONMETALLIC MINERALS MINING | 44 637 | ³ 33 421 | (³) | 2 364 | 8 852 | 9 561 | 146 | 9 415 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE (LIMESTONE) | 16 778 | ³ 11 199 | (³) | 1 152 | 4 427 | 4 447 | 43 | 4 404 | 34 095 | 47 392 | ⁵ 5 197 | ⁵ 6 159 |
| 1441 | SAND AND GRAVEL. | 13 720 | ³ 9 006 | (³) | 853 | 3 861 | 4 483 | 37 | 4 446 | 27 944 | ⁶ 36 687 | ⁵ 1 065 | (⁶) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. . . . | 10 479 | ³ 6 632 | (³) | 815 | 3 032 | 3 454 | 36 | 3 418 | 24 357 | ⁶ 26 482 | ⁷ 1 695 | (⁶) |

Note: See appendix A for an explanation of terms.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁵Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁶Figures for the value of shipments of primary products by establishments classified in other industries or subindustries are included with those for the value of shipments of primary products by establishments classified in the specified industry or subindustry. See also footnote 5.⁷Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Separately operated preparation plants | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | 1 191 | 1 123 | 709 | 16 | 69 | 624 | 405 | 50 | 330 | 25 | 9 | 68 |
| | NUMBER OF ESTABLISHMENTS..... | 18 683 | 18 602 | 4 947 | (D) | (D) | 4 181 | 13 253 | 5 858 | 6 874 | 521 | 402 | 81 |
| | NUMBER OF EMPLOYEES..... | 433 695 | 433 858 | 196 623 | (D) | (D) | 187 956 | 222 717 | 75 073 | 139 044 | 8 600 | 14 518 | (²) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| 12 | BITUMINOUS COAL MINING | 103 | 101 | 23 | 8 | 14 | 1 | 78 | 36 | 41 | 1 | - | 2 |
| | NUMBER OF ESTABLISHMENTS..... | 8 741 | (D) | (D) | (D) | (D) | (D) | 8 201 | (D) | 3 111 | (D) | - | (D) |
| | NUMBER OF EMPLOYEES..... | 157 465 | (D) | (D) | (D) | (D) | (D) | 150 491 | (D) | 82 504 | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| 13 | OIL AND GAS EXTRACTION | 686 | 625 | 622 | - | - | 622 | - | - | - | - | 3 | 61 |
| | NUMBER OF ESTABLISHMENTS..... | (D) | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| 14 | NONMETALLIC MINERALS MINING | 397 | 393 | 63 | 7 | 55 | 1 | 326 | 13 | 289 | 24 | 4 | 4 |
| | NUMBER OF ESTABLISHMENTS..... | 5 290 | 5 282 | 212 | (D) | (D) | (D) | 5 036 | (D) | 3 763 | (D) | (D) | (D) |
| | NUMBER OF EMPLOYEES..... | 74 266 | 74 283 | 1 817 | (D) | (D) | (D) | 72 006 | (D) | 56 540 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| 142 | CRUSHED AND BROKEN STONE | 150 | 149 | 3 | - | 3 | - | 144 | 7 | 137 | - | 2 | 1 |
| | NUMBER OF ESTABLISHMENTS..... | 2 365 | (D) | (D) | - | (D) | - | 2 335 | 290 | 2 045 | - | (D) | (D) |
| | NUMBER OF EMPLOYEES..... | 38 448 | (D) | (D) | - | (D) | - | 38 018 | 3 625 | 34 393 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |
| 144 | SAND AND GRAVEL | 209 | 208 | 39 | - | 38 | 1 | 167 | - | 143 | 24 | 2 | 1 |
| | NUMBER OF ESTABLISHMENTS..... | 2 107 | (D) | (D) | - | 104 | (D) | 1 970 | - | (D) | (D) | (D) | (D) |
| | NUMBER OF EMPLOYEES..... | 27 322 | (D) | (D) | - | 1 085 | (D) | 25 963 | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | | | | | | | | | | | | |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ² | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 521 | 215 | 22 675 | 138 394 | 18 657 | 37 593 | 109 690 | 461 558 | 263 525 | 668 120 | (NA) | 27 482 | 462 230 |
| | MINERAL INDUSTRIES... | 1 447 | 209 | 22 043 | 135 418 | 18 025 | 36 341 | 106 714 | 450 534 | 260 935 | 654 518 | 56 951 | 27 112 | 452 357 |
| | INCLUDED IN MANUFACTURES ² | 74 | 6 | 632 | 2 976 | 632 | 1 252 | 2 976 | 11 024 | 2 590 | 13 602 | (NA) | 370 | 9 873 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ADAMS COUNTY, TOTAL | 18 | 3 | 127 | 632 | 107 | 243 | 497 | 1 343 | 509 | 1 790 | 62 | 126 | 1 345 |
| 14 | NONMETALLIC MINERALS MINING. | 8 | 2 | 104 | 514 | 89 | 222 | 430 | 992 | 449 | 1 389 | 52 | (NA) | (NA) |
| | BOND COUNTY, TOTAL | 28 | - | 41 | 135 | 35 | 67 | 119 | 533 | 403 | 737 | 199 | 64 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 16 | - | 20 | 67 | 16 | 30 | 59 | 423 | 197 | 536 | 84 | 20 | (NA) |
| | BUREAU COUNTY, TOTAL | 9 | - | 31 | 212 | 28 | 68 | 191 | 411 | 370 | 729 | 52 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | - | 31 | 212 | 28 | 68 | 191 | 411 | 370 | 729 | 52 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 9 | - | 31 | 212 | 28 | 68 | 191 | 411 | 370 | 729 | 52 | (NA) | (NA) |
| | CHAMPAIGN COUNTY, TOTAL | 18 | - | 62 | 286 | 52 | 114 | 238 | 822 | 304 | 1 069 | 57 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 11 | - | 60 | 278 | 51 | 111 | 233 | 540 | 282 | 766 | 56 | (NA) | (NA) |
| | CLARK COUNTY, TOTAL | 48 | 2 | 146 | 660 | 118 | 239 | 510 | 1 555 | 651 | 1 908 | 298 | 200 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 29 | - | 43 | 150 | 40 | 68 | 137 | 745 | 345 | 942 | 148 | 118 | (NA) |
| | CLAY COUNTY, TOTAL | 146 | 3 | 403 | 1 909 | 326 | 644 | 1 438 | 8 187 | 3 384 | 10 530 | 1 041 | 521 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 97 | 2 | 198 | 906 | 152 | 276 | 633 | 6 142 | 2 009 | 7 352 | 799 | 346 | (NA) |
| | CLINTON COUNTY, TOTAL | 57 | - | 93 | 346 | 74 | 147 | 238 | 3 880 | 1 234 | 4 765 | 349 | 294 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 41 | - | 51 | 198 | 38 | 70 | 129 | 3 545 | 1 027 | 4 279 | 293 | 148 | (NA) |
| | COLES COUNTY, TOTAL | 56 | - | 88 | 433 | 76 | 169 | 357 | 2 772 | 1 121 | 3 332 | 561 | 190 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 39 | - | 42 | 200 | 36 | 68 | 147 | 1 950 | 801 | 2 343 | 408 | 95 | (NA) |
| | COOK COUNTY, TOTAL | 51 | 5 | 2 169 | 16 023 | 490 | 1 098 | 3 051 | 14 828 | 5 188 | 19 359 | 657 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 10 | - | 46 | 193 | 42 | 85 | 186 | 523 | 167 | 645 | 45 | (NA) | (NA) |
| | CRAWFORD COUNTY, TOTAL | 78 | 3 | 486 | 2 843 | 439 | 909 | 2 485 | 10 999 | 3 696 | 12 665 | 2 030 | 584 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 48 | 3 | 409 | 2 486 | 364 | 761 | 2 142 | 10 166 | 3 276 | 11 519 | 1 923 | 482 | (NA) |
| | CUMBERLAND COUNTY, TOTAL | 11 | - | 29 | 161 | 27 | 56 | 140 | 879 | 284 | 1 139 | 24 | 62 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 18 | 104 | 18 | 38 | 100 | 771 | 220 | 983 | 8 | 45 | (NA) |
| | DE WITT COUNTY, TOTAL | 19 | - | 29 | 99 | 23 | 47 | 75 | 931 | 374 | 1 095 | 210 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 8 | - | 3 | 12 | 2 | 4 | 11 | 692 | 299 | 831 | 160 | (NA) | (NA) |
| | EDWARDS COUNTY, TOTAL | 61 | - | 125 | 571 | 104 | 183 | 414 | 3 244 | 1 085 | 3 992 | 337 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 61 | - | 125 | 571 | 104 | 183 | 414 | 3 244 | 1 085 | 3 992 | 337 | 162 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 46 | - | 87 | 437 | 66 | 120 | 284 | 2 929 | 932 | 3 561 | 300 | (NA) | (NA) |
| | EFFINGHAM COUNTY, TOTAL | 42 | 2 | 142 | 918 | 55 | 84 | 233 | 1 032 | 399 | 1 328 | 103 | 123 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 42 | 2 | 142 | 918 | 55 | 84 | 233 | 1 032 | 399 | 1 328 | 103 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 33 | 1 | 103 | 728 | 21 | 32 | 69 | 963 | 336 | 1 197 | 102 | 105 | (NA) |
| | FAYETTE COUNTY, TOTAL | 64 | 6 | 464 | 2 155 | 379 | 743 | 1 656 | 41 623 | 5 905 | 45 075 | 2 453 | 397 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 38 | 2 | 242 | 1 439 | 186 | 378 | 1 034 | 40 383 | 5 254 | 43 425 | 2 212 | 228 | (NA) |
| | FORD COUNTY, TOTAL | 4 | - | 21 | 129 | 17 | 39 | 99 | 448 | 170 | 518 | 100 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|------------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 138 | FRANKLIN COUNTY, TOTAL | 56 | 5 | 1 085 | 7 636 | 932 | 1 844 | 6 235 | 17 900 | 9 036 | 23 896 | 3 040 | 1 617 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | OIL AND GAS FIELD SERVICES | 15 | 1 | 56 | 194 | 54 | 93 | 186 | 420 | 295 | 697 | 18 | (NA) | (NA) |
| | FULTON COUNTY, TOTAL | 16 | 7 | 984 | 7 392 | 902 | 1 699 | 6 761 | 22 365 | 10 041 | 28 229 | 4 177 | (NA) | (NA) |
| | GALLATIN COUNTY, TOTAL | 78 | 1 | 128 | 539 | 108 | 196 | 444 | 4 525 | 969 | 5 187 | 307 | 196 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 57 | - | 85 | 422 | 69 | 133 | 335 | 4 233 | 864 | 4 796 | 301 | 84 | (NA) |
| | HAMILTON COUNTY, TOTAL | 88 | 3 | 313 | 1 540 | 275 | 512 | 1 238 | 9 973 | 2 918 | 11 604 | 1 287 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 60 | 3 | 185 | 1 080 | 156 | 297 | 813 | 9 127 | 2 595 | 10 498 | 1 224 | 224 | (NA) |
| | HARDIN COUNTY, TOTAL | 11 | 4 | 558 | 2 725 | 487 | 944 | 2 176 | 6 430 | 2 751 | 8 871 | 310 | 837 | 6 693 |
| 14 | NONMETALLIC MINERALS MINING. | 11 | 4 | 558 | 2 725 | 487 | 944 | 2 176 | 6 430 | 2 751 | 8 871 | 310 | 828 | 6 697 |
| | HENRY COUNTY, TOTAL. | 6 | 2 | 182 | 1 213 | 169 | 320 | 1 154 | 1 624 | 3 938 | 5 537 | 25 | 63 | 244 |
| | JACKSON COUNTY, TOTAL. | 11 | 2 | 186 | 1 138 | 163 | 343 | 983 | 3 673 | 1 779 | 5 037 | 415 | 374 | (NA) |
| | JASPER COUNTY, TOTAL | 58 | 1 | 82 | 254 | 74 | 120 | 210 | 942 | 650 | 1 428 | 164 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 58 | 1 | 82 | 254 | 74 | 120 | 210 | 942 | 650 | 1 428 | 164 | 169 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 41 | - | 40 | 119 | 37 | 57 | 99 | 669 | 512 | 1 050 | 131 | 63 | (NA) |
| | JEFFERSON COUNTY, TOTAL. | 92 | 3 | 833 | 5 269 | 751 | 1 506 | 4 855 | 15 577 | 6 194 | 20 469 | 1 302 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 64 | 2 | 191 | 925 | 169 | 312 | 766 | 5 449 | 2 930 | 7 783 | 596 | (NA) | (NA) |
| | JOHNSON COUNTY, TOTAL. | 3 | 2 | 65 | 486 | 54 | 122 | 323 | 990 | 507 | 1 337 | 160 | (NA) | (NA) |
| 14 142 | NONMETALLIC MINERALS MINING. | 3 | 2 | 65 | 486 | 54 | 122 | 323 | 990 | 507 | 1 337 | 160 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE | 3 | 2 | 65 | 486 | 54 | 122 | 323 | 990 | 507 | 1 337 | 160 | (NA) | (NA) |
| | KANE COUNTY, TOTAL | 17 | 2 | 113 | 639 | 75 | 152 | 442 | 1 847 | 931 | 2 589 | 189 | (NA) | (NA) |
| | LAKE COUNTY, TOTAL | 10 | - | 47 | 386 | 40 | 94 | 337 | 1 074 | 327 | 1 241 | 160 | (NA) | (NA) |
| | LA SALLE COUNTY, TOTAL | 22 | 6 | 652 | 4 271 | 520 | 1 145 | 3 148 | 10 120 | 4 547 | 13 510 | 1 157 | 741 | (NA) |
| 14 144 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | SAND AND GRAVEL. | 14 | 5 | 514 | 3 429 | 399 | 870 | 2 411 | 8 585 | 3 202 | 10 779 | 1 008 | 579 | 3 637 |
| | LAWRENCE COUNTY, TOTAL | 98 | 2 | 526 | 2 767 | 448 | 895 | 2 308 | 19 343 | 7 066 | 21 676 | 4 733 | 661 | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 95 | 2 | 511 | 2 711 | 436 | 869 | 2 260 | 19 201 | 7 008 | 21 491 | 4 718 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 68 | 2 | 405 | 2 409 | 354 | 725 | 1 983 | 18 527 | 6 700 | 20 576 | 4 651 | 533 | (NA) |
| | OIL AND GAS FIELD SERVICES | 27 | - | 106 | 302 | 82 | 144 | 277 | 674 | 308 | 915 | 67 | (NA) | (NA) |
| | LEE COUNTY, TOTAL. | 10 | - | 48 | 220 | 39 | 84 | 199 | 721 | 426 | 975 | 172 | 28 | 404 |
| 14 142 | NONMETALLIC MINERALS MINING. | 10 | - | 48 | 220 | 39 | 84 | 199 | 721 | 426 | 975 | 172 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE | 6 | - | 41 | 192 | 33 | 72 | 174 | 599 | 383 | 824 | 158 | (NA) | (NA) |
| | LIVINGSTON COUNTY, TOTAL | 5 | 2 | 79 | 566 | 63 | 133 | 364 | 1 183 | 482 | 1 561 | 104 | 137 | 1 440 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 2 | 79 | 566 | 63 | 133 | 364 | 1 183 | 482 | 1 561 | 104 | (NA) | (NA) |
| | LOGAN COUNTY, TOTAL. | 7 | 1 | 82 | 406 | 53 | 93 | 217 | 494 | 271 | 713 | 52 | 87 | 652 |
| | MCHENRY COUNTY, TOTAL. | 11 | 4 | 181 | 1 202 | 135 | 310 | 859 | 2 578 | 2 153 | 3 247 | 1 484 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 11 | 4 | 181 | 1 202 | 135 | 310 | 859 | 2 578 | 2 153 | 3 247 | 1 484 | 219 | 4 475 |
| | MACON COUNTY, TOTAL. | 25 | - | 53 | 229 | 42 | 73 | 174 | 987 | 381 | 1 197 | 171 | 37 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 21 | - | 30 | 111 | 23 | 33 | 70 | 702 | 246 | 822 | 126 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 10 | - | 12 | 52 | 6 | 10 | 17 | 579 | 166 | 650 | 95 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | MADISON COUNTY, TOTAL | 32 | 5 | 444 | 2 460 | 375 | 664 | 1 824 | 4 427 | 1 095 | 5 399 | 123 | 537 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 20 | - | 20 | 51 | 16 | 30 | 40 | 611 | 137 | 721 | 27 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 16 | - | 19 | 48 | 15 | 29 | 37 | 572 | 121 | 666 | 27 | (NA) | (NA) |
| 13 | MARION COUNTY, TOTAL | 87 | 3 | 451 | 2 383 | 320 | 572 | 1 601 | 25 537 | 4 630 | 29 348 | 819 | 503 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 58 | 2 | 306 | 1 862 | 229 | 434 | 1 314 | 24 468 | 4 071 | 27 883 | 656 | 409 | (NA) |
| 14 | OGLE COUNTY, TOTAL | 11 | 2 | 95 | 539 | 81 | 188 | 433 | 1 468 | 704 | 1 804 | 368 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 11 | 2 | 95 | 539 | 81 | 188 | 433 | 1 468 | 704 | 1 804 | 368 | 89 | 68 |
| 12 | PEORIA COUNTY, TOTAL | 15 | 6 | 278 | 1 900 | 238 | 506 | 1 644 | 5 161 | 2 317 | 6 446 | 1 032 | 199 | 2 71 |
| 1211 | BITUMINOUS COAL MINING | 5 | 3 | 143 | 1 172 | 130 | 277 | 1 087 | 3 647 | 1 834 | 4 572 | 909 | 87 | 1 24 |
| 14 | BITUMINOUS COAL. | 5 | 3 | 143 | 1 172 | 130 | 277 | 1 087 | 3 647 | 1 834 | 4 572 | 909 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 9 | 3 | 134 | 701 | 108 | 229 | 557 | 1 514 | 483 | 1 874 | 123 | (NA) | (NA) |
| | PULASKI COUNTY, TOTAL | 4 | 1 | 56 | 250 | 49 | 106 | 109 | 1 014 | 187 | 1 074 | 127 | (NA) | (NA) |
| 14 | RANDOLPH COUNTY, TOTAL | 13 | 3 | 414 | 3 054 | 368 | 850 | 2 713 | 7 173 | 2 029 | 8 727 | 475 | 416 | (NA) |
| | NONMETALLIC MINERALS MINING. | 4 | 1 | 127 | 634 | 121 | 253 | 629 | 1 571 | 317 | 1 778 | 110 | 112 | 2 07 |
| 13 | RICHLAND COUNTY, TOTAL | 95 | - | 224 | 1 135 | 184 | 366 | 852 | 3 990 | 1 854 | 5 123 | 721 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 58 | - | 102 | 461 | 76 | 133 | 283 | 2 177 | 997 | 2 664 | 510 | 443 | (NA) |
| 14 | ROCK ISLAND COUNTY, TOTAL. | 9 | 2 | 84 | 591 | 70 | 180 | 476 | 1 363 | 911 | 2 209 | 65 | (NA) | (NA) |
| 142 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUSHED AND BROKEN STONE | 4 | 2 | 49 | 339 | 43 | 111 | 290 | 789 | 529 | 1 265 | 53 | (NA) | (NA) |
| 14 | ST CLAIR COUNTY, TOTAL | 21 | 11 | 1 036 | 7 578 | 868 | 1 887 | 6 454 | 26 233 | 13 296 | 35 494 | 4 035 | 1 184 | (NA) |
| | NONMETALLIC MINERALS MINING. | 9 | 5 | 269 | 1 405 | 236 | 497 | 1 212 | 3 124 | 1 071 | 3 722 | 473 | (NA) | (NA) |
| 12 | SALINE COUNTY, TOTAL | 59 | 7 | 905 | 6 152 | 756 | 1 507 | 5 138 | 15 463 | 14 604 | 24 309 | 5 758 | 768 | (NA) |
| 13 | BITUMINOUS COAL MINING | 13 | 7 | 821 | 5 753 | 687 | 1 370 | 4 850 | 13 968 | 14 080 | 22 599 | 5 449 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 32 | - | 43 | 184 | 38 | 80 | 153 | 1 158 | 190 | 1 211 | 137 | 77 | (NA) |
| 14 | SANGAMON COUNTY, TOTAL | 31 | 2 | 151 | 706 | 126 | 194 | 568 | 1 389 | 736 | 1 679 | 446 | 138 | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 72 | 337 | 56 | 91 | 250 | 619 | 179 | 641 | 157 | (NA) | (NA) |
| | SHELBY COUNTY, TOTAL | 16 | - | 31 | 175 | 29 | 59 | 161 | 531 | 215 | 669 | 77 | 16 | (NA) |
| 14 | UNION COUNTY, TOTAL. | 4 | 1 | 53 | 312 | 46 | 72 | 203 | 745 | 507 | 1 100 | 152 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 4 | 1 | 53 | 312 | 46 | 72 | 203 | 745 | 507 | 1 100 | 152 | 80 | 61 |
| | VERMILION COUNTY, TOTAL. | 18 | 4 | 209 | 1 388 | 188 | 371 | 1 261 | 4 791 | 1 443 | 6 139 | 95 | (NA) | (NA) |
| 13 | WABASH COUNTY, TOTAL | 157 | 1 | 377 | 1 577 | 320 | 621 | 1 237 | 9 649 | 3 141 | 11 739 | 1 051 | 480 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 153 | 1 | 368 | 1 539 | 312 | 604 | 1 203 | 9 577 | 3 088 | 11 626 | 1 039 | (NA) | (NA) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS. . | 105 | - | 234 | 993 | 198 | 368 | 778 | 8 104 | 2 308 | 9 489 | 923 | 318 | (NA) |
| | OIL AND GAS FIELD SERVICES | 48 | 1 | 134 | 546 | 114 | 236 | 425 | 1 473 | 780 | 2 137 | 116 | (NA) | (NA) |
| 13 | WASHINGTON COUNTY, TOTAL | 51 | 2 | 141 | 531 | 126 | 248 | 451 | 1 458 | 1 555 | 2 737 | 276 | 130 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 48 | 1 | 87 | 328 | 77 | 155 | 271 | 1 134 | 1 137 | 2 081 | 190 | 82 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 37 | - | 32 | 112 | 24 | 35 | 66 | 955 | 966 | 1 767 | 154 | 53 | (NA) |
| 13 | WAYNE COUNTY, TOTAL. | 142 | 2 | 466 | 2 069 | 394 | 767 | 1 651 | 10 315 | 3 528 | 12 299 | 1 544 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 142 | 2 | 466 | 2 069 | 394 | 767 | 1 651 | 10 315 | 3 528 | 12 299 | 1 544 | 655 | (NA) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS. . | 94 | 2 | 315 | 1 427 | 258 | 485 | 1 085 | 9 182 | 2 791 | 10 724 | 1 249 | 538 | (NA) |
| | OIL AND GAS FIELD SERVICES | 48 | - | 151 | 642 | 136 | 282 | 566 | 1 133 | 737 | 1 575 | 295 | 117 | (NA) |
| 13 | WHITE COUNTY, TOTAL. | 188 | 8 | 838 | 4 411 | 726 | 1 338 | 3 641 | 18 428 | 6 721 | 22 559 | 2 590 | 962 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 126 | 5 | 575 | 3 219 | 495 | 904 | 2 635 | 15 475 | 5 334 | 18 546 | 2 263 | 530 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 14 144 | WILL COUNTY, TOTAL | 14 | 7 | 449 | 2 881 | 409 | 897 | 2 507 | 7 075 | 4 860 | 9 677 | 2 258 | 550 | 8 614 |
| | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | SAND AND GRAVEL. | 7 | 3 | 148 | 881 | 142 | 302 | 801 | 2 146 | 1 227 | 3 357 | 16 | 203 | 3 283 |
| 12 | WILLIAMSON COUNTY, TOTAL | 27 | 14 | 1 270 | 8 668 | 1 195 | 2 328 | 8 242 | 16 276 | 7 551 | 21 723 | 2 104 | 1 630 | (NA) |
| | BITUMINOUS COAL MINING | 17 | 14 | 1 268 | 8 666 | 1 193 | 2 325 | 8 240 | 16 103 | 7 500 | 21 560 | 2 043 | 1 618 | 19 512 |
| | WINNEBAGO COUNTY, TOTAL. | 10 | 2 | 127 | 673 | 92 | 185 | 364 | 1 635 | 423 | 1 855 | 203 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 80 | 3 | 343 | 1 341 | 270 | 478 | 965 | 4 575 | 1 747 | 5 993 | 329 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 80 | 3 | 343 | 1 341 | 270 | 478 | 965 | 4 575 | 1 747 | 5 993 | 329 | 903 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 35 | 3 | 186 | 685 | 142 | 207 | 408 | 2 964 | 1 004 | 3 806 | 162 | 548 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 45 | - | 157 | 656 | 128 | 271 | 557 | 1 611 | 743 | 2 187 | 167 | 355 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represents the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 4.

³Excludes data for establishments included in manufactures.

Industry Groups, for Counties: 1963

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|----------------------------------|-------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|---|
| | Total | Classified in mineral industries | Included in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| EFFINGHAM COUNTY, TOTAL | 42 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 33 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 40 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FAYETTE COUNTY, TOTAL | 65 | 64 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 38 | - | 21 | - | - | 1 | - | 4 | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 59 | 58 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 36 | - | 17 | - | - | 1 | - | 4 | - | - | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FORD COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| FRANKLIN COUNTY, TOTAL | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 36 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 51 | 51 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 35 | - | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FULTON COUNTY, TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | 14 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GALLATIN COUNTY, TOTAL | 78 | 78 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 57 | - | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 77 | 77 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 57 | - | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GREENE COUNTY, TOTAL | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 2 | - | - | - | 1 | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 2 | - | - | - | 1 | 2 | - | - | - | - | - |
| GRUNDY COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - |
| HAMILTON COUNTY, TOTAL | 88 | 88 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 60 | 1 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 85 | 85 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 57 | 1 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HANCOCK COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| HARDIN COUNTY, TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 8 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 4 | 1 | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| HENDERSON COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | - | - | - | - | - | - | - | - |
| HENRY COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| IROQUOIS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| JACKSON COUNTY, TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | 3 | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | 3 | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JASPER COUNTY, TOTAL | 58 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 | - | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 57 | 57 | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY, TOTAL | 92 | 92 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 64 | - | 24 | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 89 | 89 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 62 | - | 24 | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JERSEY COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - |
| JO DAVIESS COUNTY, TOTAL | 8 | 8 | - | - | 4 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| LA SALLE COUNTY: TOTAL | 31 | 22 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 | 3 | 14 | 2 | 3 | 4 | - | - | - | - |
| 0-19 EMPLOYEES | 24 | 16 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 2 | 9 | 2 | 2 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| LAWRENCE COUNTY: TOTAL | 98 | 98 | - | - | - | - | - | - | - | - | - | - | - | - | - | 68 | - | 27 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 96 | 96 | - | - | - | - | - | - | - | - | - | - | - | - | - | 66 | - | 27 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LEE COUNTY: TOTAL | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1 | 3 | 1 | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 3 | 1 | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| LIVINGSTON COUNTY: TOTAL | 8 | 5 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | 3 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | 3 | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| LOGAN COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MCDONOUGH COUNTY: TOTAL | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 1 | - | 1 | - | 3 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | 1 | - | 1 | - | 3 | 2 | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| MCHEENRY COUNTY: TOTAL | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 10 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| MCLEAN COUNTY: TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 6 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 6 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| MACON COUNTY: TOTAL | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 11 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 11 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| MACOUPIN COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MADISON COUNTY: TOTAL | 33 | 32 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 16 | - | 4 | - | - | 3 | 1 | 7 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 28 | 27 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 4 | - | - | 1 | 1 | 6 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MARION COUNTY: TOTAL | 87 | 87 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 58 | - | 27 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 84 | 84 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | - | 27 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MARSHALL COUNTY: TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MASON COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MASSAC COUNTY: TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - |
| MENARD COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 2 | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 2 | - | - | - | - | 1 | - | - | - | - |
| MERCER COUNTY: TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MONROE COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MONTGOMERY COUNTY: TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | 2 | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 2 | - | - | 3 | - | 1 | - | - | - | - | - | - | - |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| POPE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 2 | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 2 | - | - | - |
| PULASKI COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PUTNAM COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| RANDOLPH COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | - | - | 3 | - | - | 3 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | 3 | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RICHLAND COUNTY, TOTAL | 95 | 95 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | - | 36 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 95 | 95 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | - | 36 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| ROCK ISLAND COUNTY, TOTAL | 11 | 9 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 | - | 4 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 4 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| ST CLAIR COUNTY, TOTAL | 25 | 21 | 4 | - | - | 1 | - | - | - | - | - | - | - | 6 | 4 | - | - | 1 | 1 | - | 5 | 2 | 2 | - | 1 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 10 | 4 | - | - | - | - | - | - | - | - | - | - | 1 | 4 | - | - | 1 | 1 | - | 1 | 2 | 2 | - | - | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 4 | - | - | - | 1 | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SALINE COUNTY, TOTAL | 59 | 59 | - | - | - | - | - | - | - | - | - | - | - | 11 | 2 | 32 | - | 12 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | 4 | 2 | 32 | - | 12 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SANGAMON COUNTY, TOTAL | 34 | 31 | 3 | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 17 | - | 6 | - | - | - | - | 4 | 1 | 1 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 32 | 29 | 3 | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 17 | - | 6 | - | - | - | - | 3 | 1 | 1 | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| SCHUYLER COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SCOTT COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - |
| SHELBY COUNTY, TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 8 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 8 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| STARK COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| STEPHENSON COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| TAZEWELL COUNTY, TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 4 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | 3 | 1 | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| UNION COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| VERMILION COUNTY, TOTAL | 19 | 18 | 1 | - | - | - | - | - | - | - | - | - | - | 7 | - | 1 | - | - | - | - | 1 | - | 9 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 14 | 1 | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | 9 | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WABASH COUNTY, TOTAL | 157 | 157 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 105 | - | 48 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 156 | 156 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 105 | - | 47 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WARREN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WINNEBAGO COUNTY: TOTAL | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 4 | - | 4 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 4 | - | 2 | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| WOODFORD COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| UNDISTRIBUTED: TOTAL | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | 35 | - | 45 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 77 | 77 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 45 | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

INDIANA

RANK AMONG STATES

EMPLOYMENT - 23

VALUE OF SHIPMENT - 25

EMPLOYMENT

8000 - 12000

4000 - 7999

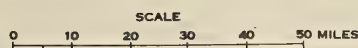
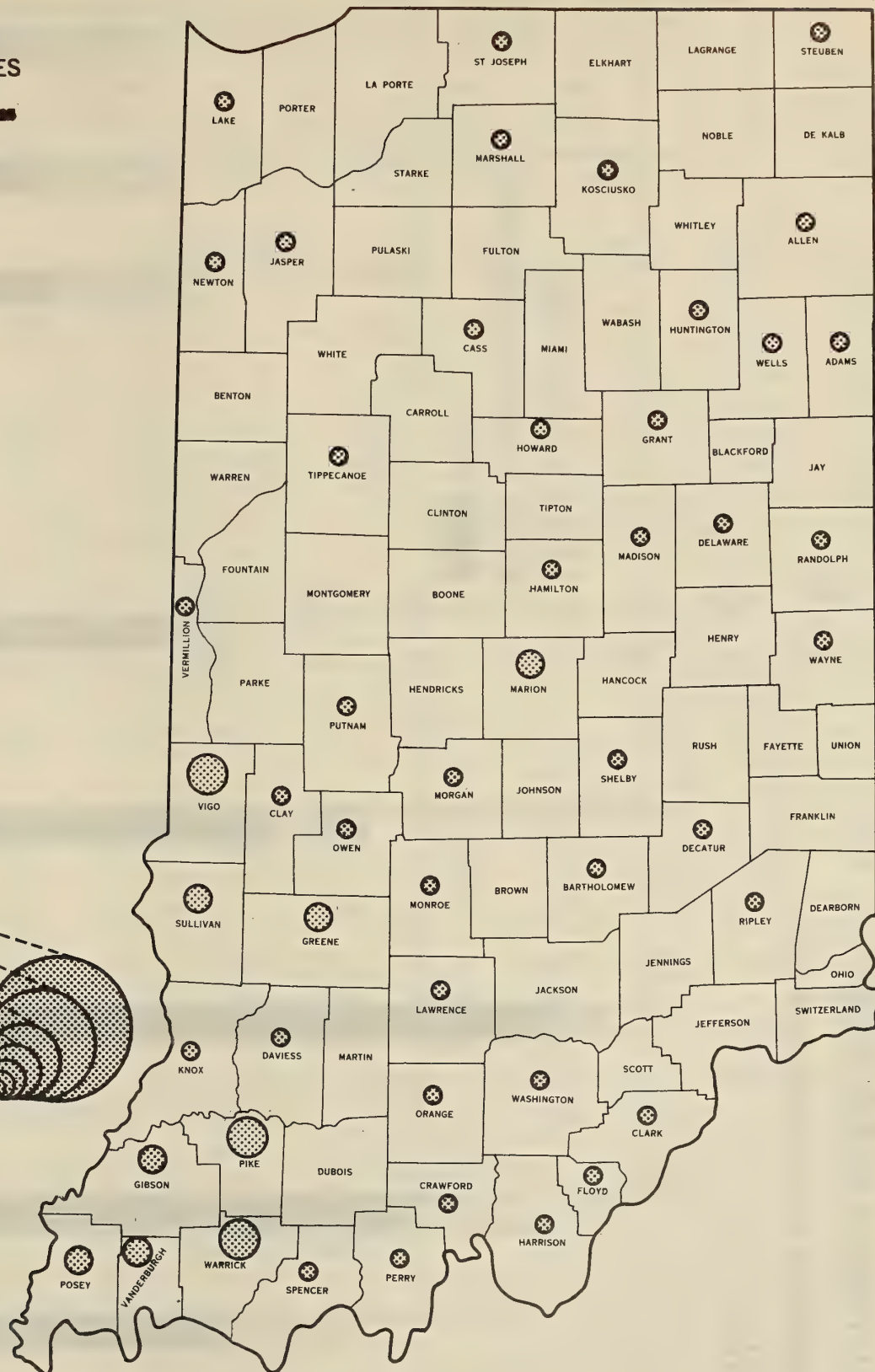
2000 - 3999

1000 - 1999

500 - 999

200 - 499

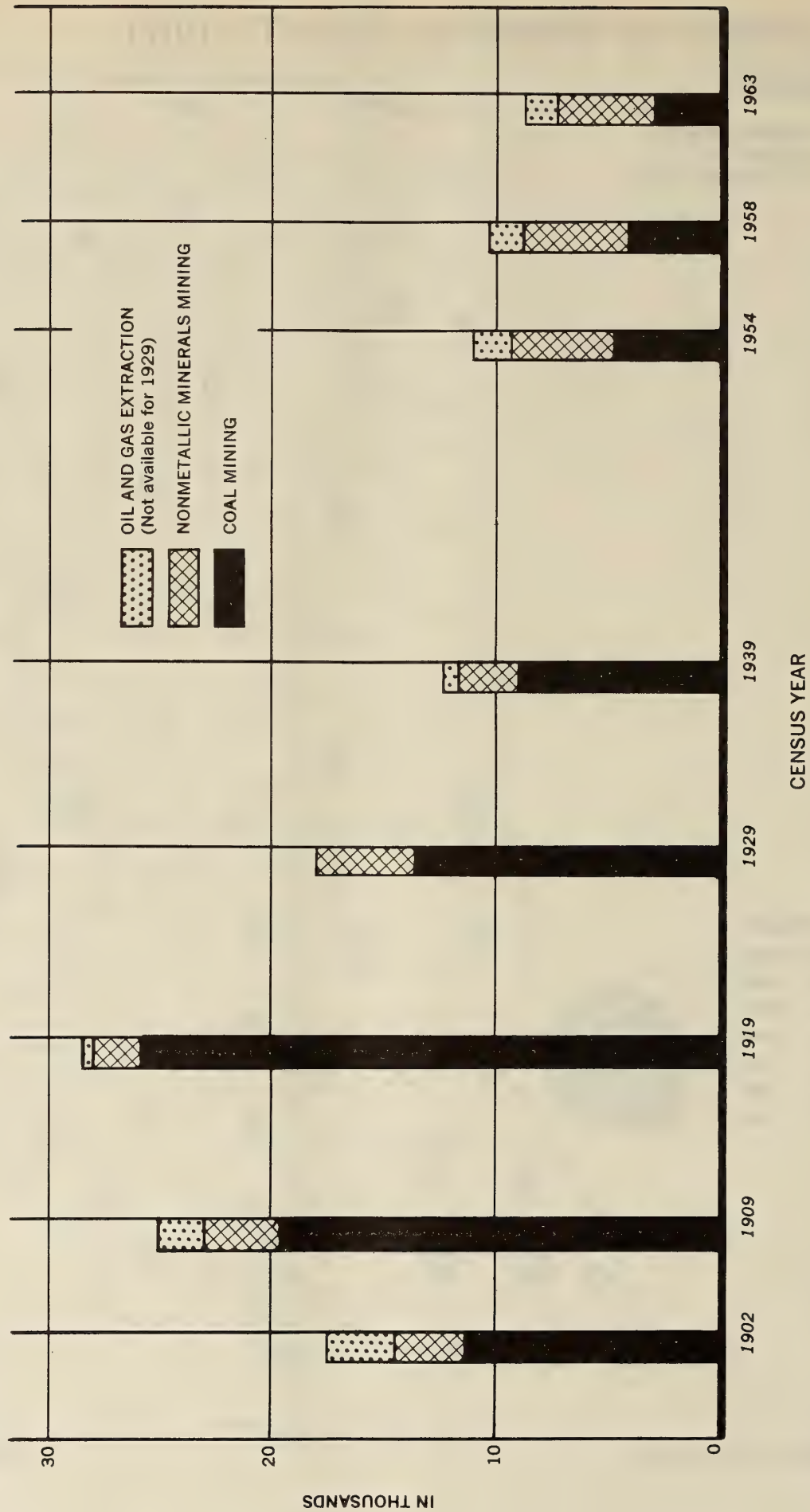
25 - 199



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

INDIANA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---|--|--|--------------------------------|--|--|--------------------------|-------------------------------|--|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 728 | 76 | 7 314 | 41 827 | 5 900 | 11 813 | 32 632 | 107 524 | |
| 1953 | 720 | 95 | 8 768 | 43 549 | 7 076 | 13 069 | 32 432 | 102 989 | |
| 1954 | 776 | 101 | 9 184 | 38 153 | 7 782 | 14 304 | 29 866 | 85 201 | |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 731 | 88 | 8 761 | 43 944 | 7 219 | 14 444 | 33 770 | 123 361 | |
| 1958 | 781 | 109 | 10 418 | 50 579 | 8 591 | 15 783 | 33 547 | 117 923 | |
| 1954 ¹ | 815 | 113 | 11 039 | 45 112 | 9 576 | 17 363 | 36 443 | 93 331 | |
| 1939 ² | ³ 576 | (NA) | 12 396 | 15 354 | 11 393 | 19 542 | 13 671 | 29 094 | |
| 1919 ⁴ | 503 | (NA) | 23 399 | 34 271 | 26 751 | (NA) | 30 193 | 44 065 | |
| 1909 ⁴ | 1 035 | (NA) | 25 057 | 15 395 | 23 952 | (NA) | 14 793 | 19 210 | |
| 1902 ⁵ | ³ 975 | (NA) | 17 512 | 11 826 | ⁶ 15 906 | (NA) | 10 463 | 21 353 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 428 | 76 | 7 255 | 41 369 | 6 172 | 12 631 | 34 793 | 98 396 | |
| 1958 | 429 | 95 | 8 769 | 43 619 | 7 331 | 13 779 | 34 473 | 89 134 | |
| 1954 ¹ | 436 | 99 | 9 315 | 33 323 | 3 303 | 15 745 | 32 714 | 75 016 | |
| 1939 ² | ³ 453 | (NA) | 11 663 | 14 333 | 10 832 | 17 553 | 13 040 | 27 147 | |
| 1929 ⁷ | 399 | (NA) | 17 934 | 26 449 | 16 742 | (NA) | 23 376 | 40 995 | |
| 1919 ⁴ | 372 | (NA) | 27 878 | 33 633 | 26 343 | (NA) | 29 717 | 42 064 | |
| 1909 ⁴ | 338 | (NA) | 22 905 | 14 834 | 22 577 | (NA) | 13 966 | 16 785 | |
| 1902 ⁵ | ³ 516 | (NA) | 14 413 | 9 603 | ⁶ 13 504 | (NA) | 8 330 | 12 069 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | ⁹ 31 316 | (⁹) | 7 925 | 15 940 | 143 340 | 19 365 | 1 907 | 323 | 576 |
| 1953 | 27 967 | 2 372 | 6 034 | 12 479 | 136 511 | 15 330 | 1 630 | 230 | (NA) |
| 1954 | 22 739 | 13 413 | 6 493 | 12 772 | 129 720 | 15 908 | 1 369 | 176 | 544 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | ¹⁰ 35 792 | 223 | ¹⁰ 7 981 | ¹¹ 16 422 | 163 909 | ¹¹ 19 875 | ¹¹ 1 907 | 323 | 11576 |
| 1958 | ¹⁰ 30 468 | 2 372 | ¹⁰ 6 220 | ¹¹ 12 922 | 154 118 | ¹¹ 15 792 | ¹¹ 1 724 | 201 | (NA) |
| 1954 ¹ | ¹⁰ 25 502 | 18 429 | ¹⁰ 6 539 | ¹¹ 13 270 | 145 816 | ¹¹ 16 305 | ¹¹ 1 506 | 157 | 11572 |
| 1939 ² | 7 955 | (NA) | 1 333 | (NA) | 37 387 | (NA) | 1 838 | 166 | 239 |
| 1919 ⁴ | 3 334 | 51 | 340 | (NA) | 52 340 | (NA) | ¹² 6 107 | 223 | 130 |
| 1909 ⁴ | 2 399 | 23 | 302 | (NA) | 21 934 | (NA) | (NA) | (NA) | 95 |
| 1902 ⁵ | 3 400 | (NA) | 2 136 | (NA) | 26 939 | (NA) | (NA) | (NA) | 132 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | ¹⁰ 26 302 | 228 | ¹⁰ 2 493 | ¹¹ 14 372 | 126 696 | ¹¹ 15 600 | ¹¹ 1 271 | 206 | 11511 |
| 1953 | ¹⁰ 24 557 | 2 372 | ¹⁰ 1 894 | ¹¹ 10 726 | 117 943 | ¹¹ 10 740 | ¹¹ 1 254 | 170 | (NA) |
| 1954 ¹ | ¹⁰ 20 404 | 13 429 | ¹⁰ 1 063 | ¹¹ 10 371 | 115 129 | ¹¹ 10 654 | ¹¹ 1 140 | 137 | 11496 |
| 1939 ² | 7 690 | (NA) | 133 | (NA) | 34 970 | (NA) | 1 766 | 163 | 231 |
| 1929 ⁷ | 7 834 | (NA) | 114 | 1 596 | 48 993 | (NA) | ¹² 3 643 | 218 | 189 |
| 1919 ⁴ | 3 046 | - | 126 | (NA) | 50 236 | (NA) | ¹² 5 945 | 226 | 122 |
| 1909 ⁴ | 1 904 | - | 20 | (NA) | 13 709 | (NA) | (NA) | (NA) | 57 |
| 1902 ⁵ | 1 236 | (NA) | 27 | (NA) | 13 332 | (NA) | (NA) | (NA) | 42 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract services operations.

Standard Notes: - Represent zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments. Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing limestone at such operations was \$1,199 thousand; this value has been included in the value of shipments and value added in mining. For "All operations," includes data for 1 or 2 oil and gas field hauling operations, with receipts for services amounting to less than \$417 thousand; such operations were not classified in the mineral industries for 1958 and 1954. For "Excluding oil and gas extraction industries," except for number of establishments, excludes data for 1 mining services establishments.

²Represents number of mines and quarries and, for crude petroleum and natural gas and mining services industries, number of operating companies.

³Excludes data for sand and gravel operations and stone quarries operated as parts of cement and lime establishments. In 1929 there were 58 such sand and gravel establishments with products value at \$4,453 thousand; 4 such stone quarries at cement plants with products value at \$535 thousand; and 1 such stone quarry at a lime plant. See also footnote 11. For "Excluding oil and gas extraction industries" in 1909, except for number of establishments, excludes data for 1 nonproducing establishment.

⁴Excludes data for sand and gravel, common clay and shale operations, and stone quarries at cement plants. Includes data for lime plants producing lime valued at \$312 thousand. For "Excluding oil and gas extraction industries," excludes data for non-producing establishments.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶Excludes data for common clay and shale establishments. For 1939, the value of products of such establishments was \$154 thousand.

⁷For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishments in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximated magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁸Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to 5 percent of the total kwh equivalent of energy used, and for "Excluding oil and gas extraction industries" in 1929, to only 3 percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|--------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 781 | 88 | 8 761 | 48 844 | 7 219 | 14 444 | 38 770 |
| | MINERAL INDUSTRIES | 728 | 76 | 7 314 | 41 827 | 5 900 | 11 818 | 32 632 |
| | INCLUDED IN MANUFACTURES | 53 | 12 | ¹ 1 447 | ¹ 7 017 | ¹ 1 319 | 2 626 | 6 138 |
| 12 | BITUMINOUS COAL MINING | 72 | 20 | 2 970 | 19 787 | 2 583 | 4 783 | 16 770 |
| 1211 | BITUMINOUS COAL. | 69 | 20 | 2 959 | 19 710 | 2 572 | 4 763 | 16 693 |
| 13 | OIL AND GAS EXTRACTION | 353 | 12 | 1 506 | 7 475 | 1 047 | 1 813 | 3 977 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 284 | 7 | 1 042 | 5 698 | 628 | 1 087 | 2 406 |
| | CRUDE PETROLEUM. | 278 | 7 | 1 038 | 5 689 | 626 | 1 083 | 2 403 |
| 138 | OIL AND GAS FIELD SERVICES | 69 | 5 | 464 | 1 777 | 419 | 726 | 1 571 |
| 1381 | DRILLING OIL AND GAS WELLS | 48 | 5 | 373 | 1 365 | 344 | 570 | 1 229 |
| 1389 | OIL AND GAS FIELD SERVICES | 18 | - | 70 | 248 | 62 | 127 | 221 |
| 14 | NONMETALLIC MINERALS MINING. | 356 | 56 | 4 285 | 21 582 | 3 589 | 7 848 | 18 023 |
| | MINERAL INDUSTRIES | 303 | 44 | 2 838 | 14 565 | 2 270 | 5 222 | 11 885 |
| | INCLUDED IN MANUFACTURES | 53 | 12 | ¹ 1 447 | ¹ 7 017 | ¹ 1 319 | 2 626 | 6 138 |
| 1411 | DIMENSION STONE. | 31 | 11 | 1 352 | 6 606 | 1 203 | 2 429 | 5 639 |
| | MINERAL INDUSTRY | 16 | 3 | 177 | 891 | 156 | 337 | 803 |
| | INCLUDED IN MANUFACTURES | 15 | 8 | 1 175 | 5 715 | 1 047 | 2 092 | 4 836 |
| | DIMENSION LIMESTONE. | 23 | 11 | 1 284 | 6 358 | 1 144 | 2 323 | 5 422 |
| | MINERAL SUBINDUSTRY. | 12 | 3 | 145 | 767 | 126 | 282 | 683 |
| | INCLUDED IN MANUFACTURES | 11 | 8 | 1 139 | 5 591 | 1 018 | 2 041 | 4 739 |
| | DIMENSION STONE. | 8 | - | 68 | 248 | 59 | 106 | 217 |
| 1421 | CRUSHED AND BROKEN STONE | 87 | 28 | 1 444 | 7 426 | 1 157 | 2 702 | 5 827 |
| | MINERAL INDUSTRY | 82 | 27 | 1 371 | 6 999 | 1 084 | 2 557 | 5 400 |
| | INCLUDED IN MANUFACTURES | 5 | 1 | ¹ 73 | ¹ 427 | ¹ 73 | 145 | 427 |
| | CRUSHED AND BROKEN LIMESTONE | 83 | 28 | ¹ 1 365 | ¹ 6 868 | ¹ 1 143 | 2 675 | 5 776 |
| 1441 | SAND AND GRAVEL. | 201 | 14 | 1 265 | 6 500 | 1 020 | 2 306 | 5 585 |
| | MINERAL INDUSTRY | 192 | 13 | 1 186 | 6 182 | 941 | 2 147 | 5 267 |
| | INCLUDED IN MANUFACTURES | 9 | 1 | ¹ 79 | ¹ 318 | ¹ 79 | 159 | 318 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 187 | 13 | 1 151 | 6 025 | 923 | 2 107 | 5 198 |
| 145 | CLAY AND RELATED MINERALS; MINERAL INDUSTRIES | 7 | 1 | 59 | 343 | 48 | 110 | 290 |

| Code | Industry group and industry | 1963 | | | | 1958 | |
|------|--------------------------------------|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 123 361 | ² 60 423 | ¹ 163 909 | ³ 19 875 | 10 418 | 117 928 |
| | MINERAL INDUSTRIES | 107 524 | 55 181 | 143 340 | 19 365 | 8 768 | 102 989 |
| | INCLUDED IN MANUFACTURES | 15 837 | ² 5 242 | ¹ 20 569 | ³ 510 | ¹ 650 | 14 939 |
| 12 | BITUMINOUS COAL MINING | 46 234 | 21 728 | 58 094 | 9 868 | 4 105 | 44 289 |
| 1211 | BITUMINOUS COAL. | 45 969 | 21 666 | 57 793 | 9 842 | 4 104 | 44 268 |
| 13 | OIL AND GAS EXTRACTION | 24 965 | 16 523 | 37 213 | 4 275 | 1 649 | 28 794 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 21 705 | 14 709 | 32 574 | 3 840 | 1 179 | 25 323 |
| | CRUDE PETROLEUM. | 21 624 | 14 590 | 32 485 | 3 729 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 3 260 | 1 814 | 4 639 | 435 | 470 | 3 471 |
| 1381 | DRILLING OIL AND GAS WELLS | 2 560 | 1 565 | 3 758 | 367 | 384 | 2 959 |
| 1389 | OIL AND GAS FIELD SERVICES | 546 | 204 | 685 | 65 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 52 162 | ² 22 172 | ¹ 68 602 | ³ 5 732 | 4 664 | 44 845 |
| | MINERAL INDUSTRIES | 36 325 | 16 930 | 48 033 | 5 222 | 3 014 | 29 906 |
| | INCLUDED IN MANUFACTURES | 15 837 | ² 5 242 | ¹ 20 569 | ³ 510 | ¹ 650 | 14 939 |
| 1411 | DIMENSION STONE. | 9 688 | 4 386 | 13 444 | 630 | 1 767 | 11 399 |
| | MINERAL INDUSTRY | 2 039 | 340 | 2 259 | 120 | 398 | 2 951 |
| | INCLUDED IN MANUFACTURES | 7 649 | 4 046 | 11 185 | 510 | 1 369 | 8 448 |
| | DIMENSION LIMESTONE. | 9 276 | 4 215 | 12 901 | 584 | 1 669 | 10 659 |
| | MINERAL SUBINDUSTRY. | 1 849 | 285 | 2 029 | 105 | 343 | 2 506 |
| | INCLUDED IN MANUFACTURES | 7 421 | 3 930 | 10 872 | 479 | 1 326 | 8 153 |
| | DIMENSION STONE. | 418 | 171 | 543 | 46 | 98 | 740 |
| 1421 | CRUSHED AND BROKEN STONE | 18 524 | ² 9 235 | ¹ 24 921 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 16 969 | 8 650 | 22 781 | 2 838 | 1 169 | 12 989 |
| | INCLUDED IN MANUFACTURES | 1 555 | ² 585 | ¹ 2 140 | (NA) | (NA) | (NA) |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|-------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 14 | NONMETALLIC MINERALS MINING—CONTINUED | | | | | | |
| | DIMENSION STONE—CONTINUED | | | | | | |
| | CRUSHED AND BROKEN LIMESTONE . . . | 18 284 | ² 9 171 | ¹ 24 853 | (NA) | (NA) | (NA) |
| 1 441 | SAND AND GRAVEL | 17 905 | 7 430 | 23 201 | (NA) | 1 407 | 14 130 |
| | MINERAL INDUSTRY | 16 007 | 7 218 | 21 091 | 2 134 | 1 335 | 12 917 |
| | INCLUDED IN MANUFACTURES | 1 898 | ² 212 | ¹ 2 110 | (NA) | ¹ 72 | 1 213 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 15 653 | 7 154 | 20 676 | 2 131 | (NA) | (NA) |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 946 | 517 | 1 364 | 99 | 66 | 659 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES . | 55 181 | ³ 1 316 | (³) | 7 925 | 15 940 | 19 365 | 1 453 | 17 912 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING . . . | 21 728 | 10 704 | - | 585 | 10 439 | 9 868 | 137 | 9 731 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL. | 21 666 | 10 669 | - | 581 | 10 416 | 9 842 | 137 | 9 705 | ⁴ 15 216 | ⁴ 57 593 | (⁴) | (⁴) |
| 13 | OIL AND GAS EXTRACTION . . . | 16 523 | 9 490 | - | 5 483 | 1 550 | 4 275 | 1 272 | 3 003 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 14 709 | 8 109 | - | 5 339 | 1 261 | 3 840 | 1 271 | 2 569 | (x) | 31 809 | (x) | 208 |
| | CRUDE PETROLEUM. | 14 590 | 8 103 | - | 5 312 | 1 175 | 3 729 | 1 208 | 2 521 | ⁵ 11 842 | 31 776 | ⁵ 70 | 208 |
| 14 | NONMETALLIC MINERALS MINING. | 16 930 | ³ 11 122 | (³) | 1 857 | 3 951 | 5 222 | 44 | 5 178 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . | 8 650 | ³ 5 974 | (³) | 923 | 1 753 | 2 838 | 24 | 2 814 | 16 244 | 21 704 | ⁶ 3 006 | ⁶ 2 183 |
| 1441 | SAND AND GRAVEL. | 7 218 | ³ 4 292 | (³) | 841 | 2 085 | 2 134 | 18 | 2 116 | 21 944 | ⁷ 21 929 | ⁶ 1 193 | (⁷) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. . . | 7 154 | ³ 4 231 | (³) | 840 | 2 083 | 2 131 | 18 | 2 113 | 21 607 | ⁷ 21 409 | ⁸ 1 170 | (⁷) |

Note: See appendix A for an explanation of terms.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.⁵Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁷Figures for the value of shipments of primary products by establishments classified in other industries or subindustries are included with those for the value of shipments of primary products by establishments classified in the specified industry or subindustry. See also footnote 6.⁸Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 12 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 653 | 621 | 354 | 19 | 79 | 256 | 264 | 16 | 239 | 9 | 3 | 32 |
| | NUMBER OF EMPLOYEES..... | 6 526 | 6 499 | 1 495 | 225 | 396 | 874 | 4 968 | 1 375 | 3 395 | 198 | 36 | 27 |
| | VALUE ADDED IN MINING....\$1,000.. | 104 985 | 103 694 | 30 168 | 1 447 | 6 397 | 22 324 | 72 991 | 12 595 | 57 205 | 3 191 | 535 | 1 291 |
| 13 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 69 | 66 | 36 | 19 | 17 | - | 30 | 14 | 15 | 1 | - | 3 |
| | NUMBER OF EMPLOYEES..... | 2 899 | (D) | (D) | 225 | (D) | - | 2 530 | (D) | 1 075 | (D) | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 46 438 | (D) | (D) | 1 447 | (D) | - | 40 422 | (D) | 25 480 | (D) | - | (D) |
| 14 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 284 | 256 | 256 | - | - | 256 | - | - | - | - | - | 28 |
| | NUMBER OF EMPLOYEES..... | 890 | 874 | 874 | - | - | 874 | - | - | - | - | - | 16 |
| | VALUE ADDED IN MINING....\$1,000.. | 22 320 | 22 324 | 22 324 | - | - | 22 324 | - | - | - | - | - | (²) |
| 142 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 300 | 299 | 62 | - | 62 | - | 234 | 2 | 224 | 8 | 3 | 1 |
| | NUMBER OF EMPLOYEES..... | 2 737 | (D) | (D) | - | (D) | - | 2 438 | (D) | 2 320 | (D) | 36 | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 36 227 | (D) | (D) | - | (D) | - | 32 569 | (D) | 31 725 | (D) | 535 | (D) |
| 144 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 82 | 82 | - | - | - | - | 80 | 1 | 77 | 2 | 2 | - |
| | NUMBER OF EMPLOYEES..... | 1 310 | 1 310 | - | - | - | - | (D) | (D) | 1 206 | (D) | (D) | - |
| | VALUE ADDED IN MINING....\$1,000.. | 16 969 | 16 969 | - | - | - | - | (D) | (D) | 16 074 | (D) | (D) | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 192 | 192 | 43 | - | 43 | - | 148 | - | 142 | 6 | 1 | - |
| | NUMBER OF EMPLOYEES..... | 1 172 | 1 172 | (D) | - | (D) | - | 1 092 | - | 1 049 | 43 | (D) | - |
| | VALUE ADDED IN MINING....\$1,000.. | 16 007 | 16 007 | (D) | - | (D) | - | 14 987 | - | 14 660 | 327 | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 781 | 88 | 8 761 | 48 844 | 7 219 | 14 444 | 38 770 | 123 361 | 60 423 | 163 909 | 19 875 | 10 418 | 117 928 |
| | MINERAL INDUSTRIES | 728 | 76 | 7 314 | 41 827 | 5 900 | 11 818 | 32 632 | 107 524 | 55 181 | 143 340 | 19 365 | 8 768 | 102 989 |
| | INCLUDED IN MANUFACTURES ² | 53 | 12 | 1 447 | 7 017 | 1 319 | 2 626 | 6 138 | 15 837 | 5 242 | 20 569 | 510 | 1 650 | 14 939 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| 14 | ALLEN COUNTY, TOTAL | 13 | 2 | 115 | 637 | 63 | 142 | 374 | 1 147 | 734 | 1 589 | 292 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 8 | 2 | 84 | 475 | 37 | 88 | 243 | 924 | 672 | 1 339 | 257 | (NA) | (NA) |
| | CASS COUNTY, TOTAL | 6 | 1 | 77 | 208 | 65 | 127 | 171 | 526 | 400 | 780 | 146 | (NA) | (NA) |
| 14 | CLARK COUNTY, TOTAL | 4 | 3 | 79 | 487 | 63 | 146 | 357 | 1 522 | 567 | 1 934 | 155 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 4 | 3 | 79 | 487 | 63 | 146 | 357 | 1 522 | 567 | 1 934 | 155 | 56 | 590 |
| | CLAY COUNTY, TOTAL | 17 | 2 | 177 | 1 194 | 154 | 299 | 1 046 | 3 243 | 1 205 | 4 186 | 262 | 284 | (NA) |
| | DAVISS COUNTY, TOTAL | 14 | - | 29 | 101 | 24 | 42 | 93 | 496 | 234 | 532 | 198 | 46 | (NA) |
| | DEARBORN COUNTY, TOTAL | 3 | - | 21 | 138 | 21 | 28 | 138 | 514 | 176 | 658 | 32 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 3 | - | 21 | 138 | 21 | 28 | 138 | 514 | 176 | 658 | 32 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 3 | - | 21 | 138 | 21 | 28 | 138 | 514 | 176 | 658 | 32 | (NA) | (NA) |
| | DECATUR COUNTY, TOTAL | 5 | - | 29 | 163 | 21 | 49 | 128 | 678 | 85 | 647 | 116 | (NA) | (NA) |
| 14 | DELAWARE COUNTY, TOTAL | 6 | 1 | 78 | 441 | 67 | 161 | 370 | 1 181 | 646 | 1 580 | 247 | 67 | 871 |
| | NONMETALLIC MINERALS MINING. | 6 | 1 | 78 | 441 | 67 | 161 | 370 | 1 181 | 646 | 1 580 | 247 | (NA) | (NA) |
| 14 | ELKHART COUNTY, TOTAL | 5 | - | 20 | 144 | 13 | 29 | 110 | 522 | 187 | 645 | 64 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | - | 20 | 144 | 13 | 29 | 110 | 522 | 187 | 645 | 64 | (NA) | (NA) |
| 14 | FLOYD COUNTY, TOTAL | 3 | 2 | 71 | 245 | 67 | 154 | 230 | 610 | 320 | 815 | 115 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 3 | 2 | 71 | 245 | 67 | 154 | 230 | 610 | 320 | 815 | 115 | (NA) | (NA) |
| 13 | GIBSON COUNTY, TOTAL | 125 | 2 | 255 | 985 | 218 | 386 | 799 | 5 932 | 4 798 | 9 813 | 917 | 643 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 86 | 1 | 169 | 688 | 141 | 244 | 541 | 5 378 | 4 574 | 9 096 | 856 | 255 | (NA) |
| | GREENE COUNTY, TOTAL | 15 | 2 | 247 | 1 835 | 229 | 476 | 1 692 | 4 624 | 2 366 | 6 429 | 561 | (NA) | (NA) |
| | HAMILTON COUNTY, TOTAL | 7 | - | 47 | 215 | 39 | 69 | 196 | 434 | 201 | 546 | 89 | (NA) | (NA) |
| 14 | HUNTINGTON COUNTY, TOTAL | 4 | 1 | 63 | 319 | 57 | 124 | 276 | 825 | 363 | 1 104 | 84 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 4 | 1 | 63 | 319 | 57 | 124 | 276 | 825 | 363 | 1 104 | 84 | (NA) | (NA) |
| 14 | JASPER COUNTY, TOTAL | 7 | 1 | 49 | 192 | 47 | 81 | 166 | 560 | 304 | 754 | 110 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 4 | 1 | 42 | 174 | 41 | 69 | 151 | 469 | 230 | 633 | 66 | (NA) | (NA) |
| 13 | KNOX COUNTY, TOTAL | 38 | - | 176 | 664 | 154 | 228 | 586 | 1 135 | 1 711 | 2 641 | 205 | 495 | (NA) |
| | OIL AND GAS EXTRACTION | 33 | - | 38 | 141 | 33 | 61 | 128 | 119 | 1 300 | 1 313 | 106 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 27 | - | 27 | 86 | 22 | 35 | 73 | 9 | 1 264 | 1 173 | 100 | (NA) | (NA) |
| | LAKE COUNTY, TOTAL | 8 | 1 | 50 | 325 | 40 | 95 | 241 | 1 025 | 166 | 1 150 | 41 | 25 | 143 |
| 14 | LAWRENCE COUNTY, TOTAL | 10 | 1 | 82 | 422 | 75 | 161 | 407 | 1 183 | 521 | 1 470 | 234 | 151 | 1 150 |
| | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 4 | 1 | 50 | 223 | 44 | 98 | 208 | 798 | 364 | 1 009 | 153 | (NA) | (NA) |
| 14 | MADISON COUNTY, TOTAL | 8 | 1 | 65 | 424 | 50 | 132 | 415 | 953 | 700 | 1 607 | 46 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 8 | 1 | 65 | 424 | 50 | 132 | 415 | 953 | 700 | 1 607 | 46 | 54 | 729 |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|--------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | MARION COUNTY, TOTAL | 14 | 6 | 202 | 1 072 | 134 | 355 | 935 | 3 619 | 919 | 4 351 | 187 | 256 | 1 828 |
| | MONROE COUNTY, TOTAL | 11 | 4 | 168 | 895 | 142 | 332 | 803 | 1 992 | 1 195 | 2 868 | 319 | 302 | 2 667 |
| 14 | NONMETALLIC MINERALS MINING. | 11 | 4 | 168 | 895 | 142 | 332 | 803 | 1 992 | 1 195 | 2 868 | 319 | (NA) | (NA) |
| 141 | DIMENSION STONE. | 8 | 3 | 124 | 632 | 105 | 238 | 548 | 1 536 | 198 | 1 666 | 68 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 3 | 1 | 44 | 263 | 37 | 94 | 255 | 456 | 997 | 1 202 | 251 | (NA) | (NA) |
| | ORANGE COUNTY, TOTAL | 5 | 1 | 81 | 316 | 63 | 142 | 225 | 551 | 241 | 688 | 104 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 81 | 316 | 63 | 142 | 225 | 551 | 241 | 688 | 104 | 101 | 557 |
| | OWEN COUNTY, TOTAL | 9 | 1 | 115 | 724 | 100 | 208 | 643 | 1 924 | 817 | 2 392 | 349 | 113 | 1 316 |
| | PIKE COUNTY, TOTAL | 63 | 2 | 517 | 3 497 | 441 | 832 | 2 849 | 10 425 | 7 295 | 11 706 | 6 014 | 671 | (NA) |
| | POSEY COUNTY, TOTAL. | 120 | 3 | 376 | 1 736 | 298 | 579 | 1 320 | 11 739 | 2 559 | 12 735 | 1 563 | 293 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 82 | 1 | 213 | 1 022 | 155 | 295 | 720 | 10 401 | 2 031 | 11 010 | 1 422 | 196 | (NA) |
| | PULASKI COUNTY, TOTAL. | 5 | - | 23 | 144 | 22 | 55 | 135 | 650 | 212 | 819 | 43 | (NA) | (NA) |
| | PUTNAM COUNTY, TOTAL | 7 | 2 | 90 | 522 | 79 | 212 | 482 | 1 599 | 845 | 2 280 | 164 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 2 | 90 | 522 | 79 | 212 | 482 | 1 599 | 845 | 2 280 | 164 | 75 | 959 |
| | SHELBY COUNTY, TOTAL | 11 | - | 77 | 346 | 61 | 134 | 287 | 733 | 697 | 1 046 | 384 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 3 | - | 42 | 210 | 32 | 73 | 174 | 454 | 586 | 700 | 340 | (NA) | (NA) |
| | SPENCER COUNTY, TOTAL. | 47 | - | 95 | 330 | 80 | 129 | 288 | 869 | 599 | 1 360 | 108 | 96 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 39 | - | 58 | 181 | 46 | 77 | 146 | 576 | 490 | 984 | 82 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 31 | - | 49 | 132 | 39 | 62 | 104 | 505 | 468 | 900 | 73 | (NA) | (NA) |
| | SULLIVAN COUNTY, TOTAL | 22 | 4 | 491 | 3 032 | 430 | 834 | 2 555 | 6 182 | 2 105 | 7 562 | 725 | 390 | (NA) |
| | VANDERBURGH COUNTY, TOTAL. | 101 | 3 | 254 | 1 518 | 181 | 343 | 961 | 3 399 | 3 664 | 6 686 | 377 | 311 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 70 | 3 | 166 | 1 051 | 97 | 192 | 540 | 2 777 | 3 401 | 5 863 | 315 | 196 | (NA) |
| | VERMILION COUNTY, TOTAL | 8 | - | 49 | 230 | 47 | 97 | 219 | 436 | 177 | 593 | 20 | 83 | 805 |
| | VIGO COUNTY, TOTAL | 23 | 6 | 962 | 6 064 | 867 | 1 519 | 5 331 | 8 414 | 4 058 | 11 708 | 764 | 1 165 | (NA) |
| | WARRICK COUNTY, TOTAL. | 25 | 5 | 599 | 3 880 | 537 | 995 | 3 428 | 14 616 | 5 993 | 18 609 | 2 000 | 671 | (NA) |
| 12 | BITUMINOUS COAL MINING | 16 | 5 | 584 | 3 832 | 526 | 972 | 3 394 | 14 446 | 5 940 | 18 400 | 1 986 | 627 | 12 035 |
| 1211 | BITUMINOUS COAL. | 14 | 5 | 574 | 3 761 | 516 | 954 | 3 323 | 14 203 | 5 883 | 18 124 | 1 962 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 40 | 1 | 132 | 654 | 122 | 282 | 611 | 1 253 | 527 | 1 668 | 112 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 40 | 1 | 132 | 654 | 122 | 282 | 611 | 1 253 | 527 | 1 668 | 112 | 268 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | - | 32 | 121 | 26 | 47 | 99 | 652 | 235 | 840 | 47 | 220 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 26 | 1 | 100 | 533 | 96 | 235 | 512 | 601 | 292 | 828 | 65 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnote 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|--|--|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|---|---|
| State, county, and size class | | | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | | |
| INDIANA, TOTAL | | | 781 | 728 | 53 | - | - | - | - | - | - | - | - | - | - | - | 69 | 3 | 284 | - | 69 | 16 | 15 | 82 | 5 | 192 | 9 | 7 | 22 | - | 3 | 3 | 2 | |
| NO EMPLOYEES | | | 153 | 153 | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 89 | - | 6 | - | - | 6 | - | 44 | - | 1 | - | - | - | - | - | |
| 1-4 EMPLOYEES | | | 321 | 295 | 26 | - | - | - | - | - | - | - | - | - | - | - | 19 | 2 | 145 | - | 37 | 7 | 2 | 7 | 1 | 73 | 3 | 3 | 20 | - | - | 2 | - | |
| 5-9 EMPLOYEES | | | 110 | 103 | 7 | - | - | - | - | - | - | - | - | - | - | - | 11 | 1 | 30 | - | 11 | 2 | 3 | 12 | 1 | 33 | 3 | 1 | - | - | 2 | - | - | |
| 10-19 EMPLOYEES | | | 109 | 101 | 8 | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 13 | - | 10 | 4 | 2 | 30 | 2 | 29 | 2 | 1 | 2 | - | 1 | 1 | - | |
| 20-49 EMPLOYEES | | | 61 | 55 | 6 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 6 | - | 4 | 3 | 2 | 26 | 1 | 12 | 1 | 1 | - | - | - | 2 | - | |
| 50-99 EMPLOYEES | | | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 1 | - | 1 | - | 1 | 1 | - | 1 | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | | | 13 | 9 | 4 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | |
| 250-499 EMPLOYEES | | | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| ADAMS COUNTY, TOTAL | | | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 3 | - | - | 1 | - | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | | | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | - | - | 1 | - | 1 | - | - | - | - | |
| ALLEN COUNTY, TOTAL | | | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | 1 | - | 7 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | 6 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | |
| BARTHOLOMEW COUNTY, TOTAL | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| BENTON COUNTY, TOTAL | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| BLACKFORD COUNTY, TOTAL | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| BOONE COUNTY, TOTAL | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| BROWN COUNTY, TOTAL | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| CARROLL COUNTY, TOTAL | | | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 1 | - | - | |
| 0-19 EMPLOYEES | | | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 1 | - | - | |
| CASS COUNTY, TOTAL | | | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 1 | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | 1 | 2 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| CLARK COUNTY, TOTAL | | | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | | | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | |
| 20-99 EMPLOYEES | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | |
| CLAY COUNTY, TOTAL | | | 18 | 17 | 1 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 5 | - | 3 | - | - | - | - | - | - | 2 | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | | | 16 | 15 | 1 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 5 | - | 3 | - | - | - | - | - | - | 2 | 1 | - | - | - | - | |
| 20-99 EMPLOYEES | | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| CLINTON COUNTY, TOTAL | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| CRAWFORD COUNTY, TOTAL | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | |
| DAVISS COUNTY, TOTAL | | | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 3 | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | | | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 3 | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| DEARBORN COUNTY, TOTAL | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| GIBSON COUNTY: TOTAL | 125 | 125 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 86 | - | 34 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 123 | 123 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 85 | - | 34 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GRANT COUNTY: TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| GREENE COUNTY: TOTAL | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | 4 | - | - | - | 2 | - | 1 | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | 4 | - | - | - | 2 | - | 1 | - | - | - | 1 | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HAMILTON COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - | - |
| HANCOCK COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| HARRISON COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| HENDRICKS COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| HENRY COUNTY: TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| HOWARD COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |
| HUNTINGTON COUNTY: TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| JACKSON COUNTY: TOTAL | 8 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | 1 | - | 3 | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | 1 | - | 3 | - | - | - | - | - |
| JASPER COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| JAY COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| JENNINGS COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - |
| JOHNSON COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| KNOX COUNTY: TOTAL | 39 | 38 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 27 | - | 6 | - | - | - | 3 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 38 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 27 | - | 6 | - | - | - | 3 | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| KOSCIUSKO COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | - | - | - | - | - | - |
| LAGRANGE COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| LAKE COUNTY: TOTAL | 10 | 8 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | 6 | - | - | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 6 | - | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LA PORTE COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| LAWRENCE COUNTY: TOTAL | 17 | 10 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 4 | 6 | 4 | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 9 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 4 | 3 | 3 | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| MADISON COUNTY: TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 7 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | -</ | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| MARTIN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 |
| MIAMI COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| MONROE COUNTY, TOTAL | 16 | 11 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 5 | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - |
| MONTGOMERY COUNTY, TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 2 | - | - | - | - |
| MORGAN COUNTY, TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| NEWTON COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| NOBLE COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - |
| ORANGE COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 3 | - | - | - | - | - | - | - | - | 1 |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - | - | 1 |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| OWEN COUNTY, TOTAL | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | 1 | - | 2 | - | 3 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | 1 | - | 2 | - | 3 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PARKE COUNTY, TOTAL | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 2 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 2 | 1 | - | 1 | - | - | - | - |
| PERRY COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| PIKE COUNTY, TOTAL | 63 | 63 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 41 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 61 | 61 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 41 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PORTER COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - |
| POSEY COUNTY, TOTAL | 120 | 120 | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 | - | 36 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 117 | 117 | - | - | - | - | - | - | - | - | - | - | - | - | - | 81 | - | 34 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| PULASKI COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 1 | - | 1 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 1 | - | 1 | - | - | 1 | - | - | - | - |
| PUTNAM COUNTY, TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - |
| RANDOLPH COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| RIPLEY COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - |
| RUSH COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - |
| ST JOSEPH COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 5 | - | - | - | - | - | - | - |
| SCOTT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-00 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SHELBY COUNTY, TOTAL | 13 | 11 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | 3 | - | 4 | 2 | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | 3 | - | 4 | 1 | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SULLIVAN COUNTY, TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 8 | - | 3 | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 8 | - | 3 | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SWITZERLAND COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| TIPPECANOE COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| VANDERBURGH COUNTY, TOTAL | 102 | 101 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 70 | - | 29 | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 99 | 98 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | 67 | - | 29 | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| VERMILION COUNTY, TOTAL | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 2 | - | - | - | - | 3 | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 2 | - | - | - | - | 3 | - | - | 2 | - | - | - | - |
| VIGO COUNTY, TOTAL | 23 | 23 | 1 | - | - | - | - | - | - | - | - | - | - | 4 | - | 10 | - | 2 | - | - | - | - | 6 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 18 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 9 | - | 2 | - | - | - | - | 5 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WABASH COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 4 | - | - | - | - | - | - | - |
| WARREN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WARRICK COUNTY, TOTAL | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | 14 | 2 | 4 | - | 3 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | 9 | 2 | 4 | - | 3 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WAYNE COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 4 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| WELLS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WHITE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WHITLEY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 40 | 40 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 26 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 39 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 25 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹See table 3 footnote 1.

IOWA

EMPLOYMENT - 33

VALUE OF SHIPMENT - 37



A vertical scale bar labeled "SCALE" with markings from 0 to 50 miles. The scale is oriented vertically, with 0 at the bottom and 50 at the top. Major markings are at 0, 10, 20, 30, 40, and 50 miles. There are also minor markings between the major ones, indicating increments of 5 miles.

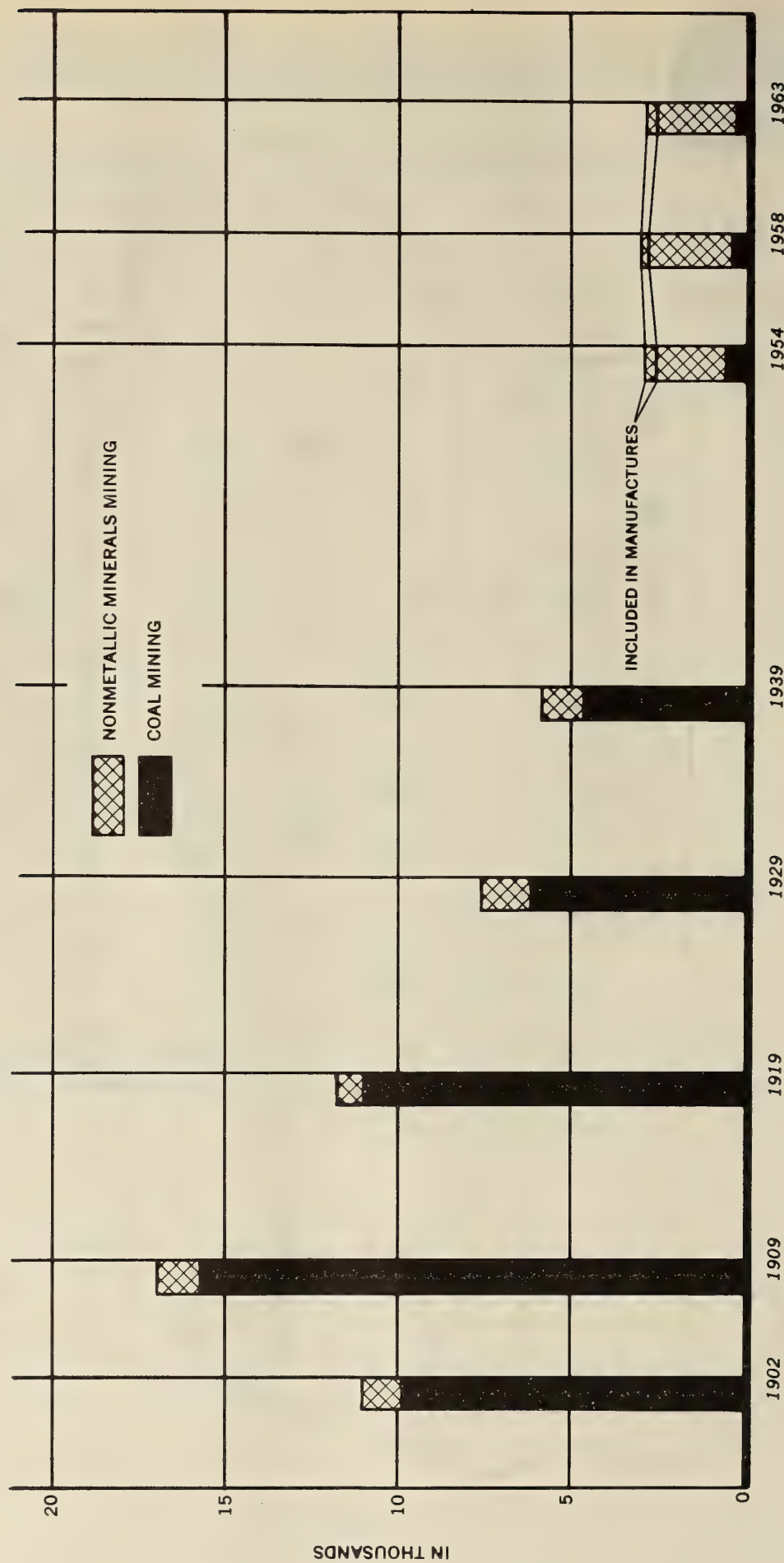
BUREAU OF THE CENSUS

U. S. DEPARTMENT OF COMMERCE

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

IOWA



CENSUS YEAR

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years¹

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|--|--|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 295 | 32 | 2 661 | 13 452 | 2 256 | 5 299 | 10 528 | 33 200 | |
| 1958. | 293 | 40 | 2 914 | 12 520 | 2 457 | 5 431 | 9 763 | 32 720 | |
| 1954. | 329 | 26 | 2 644 | 9 104 | 2 347 | 5 288 | 7 894 | 21 513 | |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | 343 | 39 | 2 965 | 14 988 | 2 560 | 5 915 | 12 064 | 41 952 | |
| 1958. | 335 | 44 | 3 146 | 13 620 | 2 689 | 5 884 | 10 863 | 41 102 | |
| 1954 ¹ | 364 | 34 | 2 974 | 10 505 | 2 677 | 6 049 | 9 295 | 27 316 | |
| 1939. | 383 | (NA) | 5 928 | 6 059 | 5 589 | 8 595 | 5 489 | 8 963 | |
| 1929 ³ | 240 | (NA) | 7 622 | 10 430 | 7 164 | (NA) | 9 317 | 14 346 | |
| 1919 ⁴ | 198 | (NA) | 11 834 | 13 810 | 11 274 | (NA) | 12 466 | 15 620 | |
| 1909 ⁴ | 402 | (NA) | 17 020 | 11 444 | 16 542 | (NA) | 10 898 | 12 296 | |
| 1902 ⁴ | 629 | (NA) | 11 051 | 7 292 | 10 439 | (NA) | 6 791 | 8 664 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁶ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 11 537 | 564 | 1 717 | 3 397 | 44 943 | 5 472 | 620 | 275 | 321 |
| 1958. | 11 751 | 368 | 2 113 | 4 467 | 45 066 | 6 353 | 941 | 383 | (NA) |
| 1954. | 8 585 | 14 | 1 526 | 3 731 | 31 564 | 3 805 | 682 | 291 | 284 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | 7 13 307 | 564 | 7 1 717 | 8 3 397 | 55 441 | 8 5 472 | 8 620 | 275 | 8 321 |
| 1958. | 7 12 936 | 368 | 7 2 113 | 8 4 467 | 54 633 | 8 6 353 | 8 941 | 350 | (NA) |
| 1954 ¹ | 7 10 395 | 14 | 7 1 526 | 8 3 731 | 39 177 | 8 3 805 | 8 682 | 255 | 8 284 |
| 1939. | 1 827 | (NA) | 54 | (NA) | 10 844 | (NA) | 201 | 36 | 66 |
| 1929 ³ | 2 556 | (NA) | 8 | 424 | 16 910 | (NA) | 758 | 106 | 55 |
| 1919 ⁴ | 2 821 | - | 33 | (NA) | 18 474 | (NA) | 9 1 622 | 144 | 32 |
| 1909 ⁴ | 1 540 | - | 42 | (NA) | 13 878 | (NA) | (NA) | (NA) | 24 |
| 1902 ⁴ | 963 | (NA) | 49 | (NA) | 9 676 | (NA) | (NA) | (NA) | 15 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract services operations.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Represents number of mines and quarries.

³Excludes data for common clay and shale and (except for 1902) peat mining operations. There were 20 such mines in 1939 with products valued at \$271 thousand. Also, for 1929 and 1919, excludes data for one nonproducing establishment.

⁴Excludes data for sand and gravel mining operations and stone quarries operated as parts of cement establishments. There were 42 such establishments in 1929 with products valued at \$3,084 thousand. See also footnote 3.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of "Minerals received for preparation." For all other years, the figures represent net production and excludes this duplication.

⁷For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁸Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments and for 1963 and 1958 data for dimension stone operations in manufactures.

⁹Excludes purchased electric energy. For 1939, the quantity of purchased electric energy amounted to only 3 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 343 | 39 | 2 965 | 14 988 | 2 560 | 5 915 | 12 064 |
| | MINERAL INDUSTRIES. | 295 | 32 | 2 661 | 13 452 | 2 256 | 5 299 | 10 528 |
| | INCLUDED IN MANUFACTURES. | 48 | 7 | 1 304 | 1 536 | 1 304 | 616 | 1 536 |
| 12 | BITUMINOUS COAL MINING. | 39 | 3 | 289 | 1 308 | 267 | 585 | 1 183 |
| 1211 | BITUMINOUS COAL | 36 | 3 | 274 | 1 246 | 254 | 561 | 1 131 |
| | NONMETALLIC MINERALS MINING | 304 | 36 | 2 676 | 13 680 | 2 293 | 5 330 | 10 881 |
| 14 | MINERAL INDUSTRIES. | 256 | 29 | 2 372 | 12 144 | 1 989 | 4 714 | 9 345 |
| | INCLUDED IN MANUFACTURES. | 48 | 7 | 1 304 | 1 536 | 1 304 | 616 | 1 536 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 115 | 21 | 1 600 | 8 674 | 1 317 | 3 239 | 6 351 |
| 1441 | SAND AND GRAVEL | 145 | 7 | 742 | 3 366 | 649 | 1 426 | 2 915 |
| | MINERAL INDUSTRY. | 132 | 7 | 716 | 3 265 | 623 | 1 375 | 2 814 |
| | INCLUDED IN MANUFACTURES. | 13 | - | 1 26 | 1 101 | 1 26 | 51 | 101 |
| | CLAY AND RELATED MINERALS | 28 | 1 | 98 | 439 | 95 | 197 | 421 |
| | INCLUDED IN MANUFACTURES. | 24 | - | 1 70 | 1 334 | 1 70 | 143 | 334 |
| | CLAY AND RELATED MINERALS | 25 | 1 | 1 93 | 1 420 | 1 90 | 187 | 402 |
| | MISCELLANEOUS MINERALS, N.E.C.. . . | 7 | 4 | 116 | 517 | 114 | 232 | 515 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 41 952 | 218 985 | 1 55 441 | (NA) | 3 146 | 41 102 | |
| | MINERAL INDUSTRIES. | 33 200 | 17 215 | 44 943 | 5 472 | 2 914 | 32 720 | |
| | INCLUDED IN MANUFACTURES. | 8 752 | 21 770 | 1 10 498 | (NA) | 1 232 | 8 382 | |
| 12 | BITUMINOUS COAL MINING. | 3 470 | 1 608 | 4 457 | 621 | 425 | 3 592 | |
| 1211 | BITUMINOUS COAL | 3 350 | 1 556 | 4 292 | 614 | 421 | 3 552 | |
| | NONMETALLIC MINERALS MINING | 38 482 | 217 377 | 1 50 984 | 4 875 | 2 721 | 37 510 | |
| 14 | MINERAL INDUSTRIES. | 29 730 | 15 607 | 40 486 | 4 851 | 2 489 | 29 128 | |
| | INCLUDED IN MANUFACTURES. | 8 752 | 21 770 | 1 10 498 | 24 | 1 232 | 8 382 | |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 20 543 | 10 838 | 27 701 | 3 680 | 1 731 | 20 383 | |
| 1441 | SAND AND GRAVEL | 9 321 | 24 505 | 12 699 | (NA) | 743 | 8 979 | |
| | MINERAL INDUSTRY. | 8 793 | 4 444 | 12 110 | 1 127 | 727 | 8 546 | |
| | INCLUDED IN MANUFACTURES. | 528 | 61 | 1 589 | (NA) | 16 | 433 | |
| | CLAY AND RELATED MINERALS | 972 | 2 614 | 11 583 | (NA) | (NA) | (NA) | |
| | INCLUDED IN MANUFACTURES. | 809 | 2 391 | 11 200 | (NA) | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS | 931 | 2 595 | 1 1 523 | (NA) | 1 163 | 871 | |
| | MISCELLANEOUS MINERALS, N.E.C.. . . | 5 330 | 587 | 5 898 | (NA) | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES . | 17 215 | 11 537 | 564 | 1 717 | 3 397 | 5 472 | 240 | 5 232 | (X) | (X) | (X) | (X) |
| 14 | NONMETALLIC MINERALS MINING. | 15 607 | 10 720 | 564 | 1 573 | 2 750 | 4 851 | 192 | 4 659 | (X) | (X) | (X) | (X) |
| 142 | CRUSHED AND BROKEN STONE . | 10 838 | 7 397 | 564 | 1 168 | 1 709 | 3 680 | 156 | 3 524 | 18 212 | 24 934 | ³ 2 423 | ³ 2 911 |
| 144 | SAND AND GRAVEL. | 4 444 | 3 039 | — | 405 | 1 000 | 1 127 | 36 | 1 091 | 10 535 | ⁴ 11 781 | ⁵ 541 | (⁴) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Includes figures for stone produced and used in the same establishment in making hydraulic cement. The value of such stone was estimated. Excludes stone used in making lime.

⁴Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 5.

⁵Includes figures for minerals produced and used in the same establishment. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 289 | 286 | 40 | 12 | 28 | - | 243 | 7 | 226 | 10 | 3 | 3 |
| | NUMBER OF EMPLOYEES..... | 2 538 | (D) | 177 | 37 | 140 | - | 2 336 | 71 | 2 155 | 110 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 32 933 | (D) | 2 209 | 371 | 1 838 | - | 30 388 | 958 | 28 392 | 1 038 | (D) | (D) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 35 | 33 | 16 | 12 | 4 | - | 17 | 4 | 13 | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | 282 | (D) | 67 | 37 | 30 | - | (D) | (D) | 174 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 309 | (D) | 514 | 371 | 143 | - | (D) | (D) | 2 553 | - | - | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 253 | 252 | 24 | - | 24 | - | 225 | 3 | 213 | 10 | 3 | 1 |
| | NUMBER OF EMPLOYEES..... | 2 256 | (D) | 110 | - | 110 | - | (D) | (D) | 1 981 | 110 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 29 624 | (D) | 1 695 | - | 1 695 | - | (D) | (D) | 25 839 | 1 038 | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 115 | 114 | 5 | - | 5 | - | 108 | 3 | 104 | 1 | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 495 | (D) | 72 | - | 72 | - | (D) | (D) | 1 332 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 20 543 | (D) | 1 416 | - | 1 416 | - | (D) | (D) | 17 699 | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 132 | 132 | 16 | - | 16 | - | 114 | - | 105 | 9 | 2 | - |
| | NUMBER OF EMPLOYEES..... | 716 | 716 | 27 | - | 27 | - | (D) | - | 615 | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 793 | 8 793 | 212 | - | 212 | - | (D) | - | 7 919 | (D) | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expend- itures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 343 | 39 | 2 965 | 14 988 | 2 560 | 5 915 | 12 064 | 41 952 | 18 985 | 55 441 | 5 496 | 3 146 | 41 102 |
| | MINERAL INDUSTRIES | 295 | 32 | 2 661 | 13 452 | 2 256 | 5 299 | 10 528 | 33 200 | 17 215 | 44 943 | 5 472 | 2 914 | 32 720 |
| | INCLUDED IN MANUFACTURES ² | 48 | 7 | 304 | 1 536 | 304 | 616 | 1 536 | 8 752 | 1 770 | 10 498 | 24 | 232 | 8 382 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALLAMAKEE COUNTY, TOTAL | 5 | - | 31 | 182 | 30 | 77 | 173 | 527 | 236 | 693 | 70 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | - | 31 | 182 | 30 | 77 | 173 | 527 | 236 | 693 | 70 | 40 | 256 |
| | APPANOOSE COUNTY, TOTAL | 12 | 1 | 94 | 301 | 87 | 189 | 263 | 643 | 746 | 1 215 | 174 | 161 | 679 |
| 14 | NONMETALLIC MINERALS MINING | 4 | 1 | 57 | 213 | 51 | 139 | 176 | 501 | 723 | 1 062 | 162 | (NA) | (NA) |
| | CERRO GORDO COUNTY, TOTAL | 5 | - | 36 | 152 | 29 | 84 | 119 | 206 | 370 | 553 | 23 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | - | 36 | 152 | 29 | 84 | 119 | 206 | 370 | 553 | 23 | (NA) | (NA) |
| | DUBUQUE COUNTY, TOTAL | 4 | 1 | 61 | 333 | 37 | 81 | 199 | 705 | 217 | 691 | 231 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 1 | 61 | 333 | 37 | 81 | 199 | 705 | 217 | 691 | 231 | 58 | 485 |
| | HARDIN COUNTY, TOTAL | 8 | 3 | 116 | 686 | 88 | 220 | 485 | 1 838 | 556 | 1 731 | 663 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 8 | 3 | 116 | 686 | 88 | 220 | 485 | 1 838 | 556 | 1 731 | 663 | 186 | 2 590 |
| | LINN COUNTY, TOTAL | 9 | 2 | 222 | 1 564 | 137 | 347 | 716 | 1 987 | 1 182 | 2 882 | 287 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 9 | 2 | 155 | 870 | 137 | 347 | 716 | 1 987 | 1 182 | 2 882 | 287 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 6 | 2 | 142 | 787 | 126 | 317 | 642 | 1 662 | 995 | 2 419 | 238 | (NA) | (NA) |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

| Ind. code | | County and industry group | | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|---------------------------|----------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | | | | | | | | | | | | | | | |
| | | | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | (number) | (number) | (number) | (number) | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | | |
| | | COUNTIES—CONTINUED | | | | | | | | | | | | | | |
| | | 6 | 3 | 114 | 583 | 110 | 215 | 548 | 1 898 | 906 | 2 613 | 191 | (NA) | (NA) | | |
| 14 | MADISON COUNTY, TOTAL | 6 | 3 | 114 | 583 | 110 | 215 | 548 | 1 898 | 906 | 2 613 | 191 | 162 | 2 435 | | |
| 142 | NONMETALLIC MINERALS MINING. | 6 | 3 | 114 | 583 | 110 | 215 | 548 | 1 898 | 906 | 2 613 | 191 | (NA) | (NA) | | |
| | CRUSHED AND BROKEN STONE | 6 | 3 | 114 | 583 | 110 | 215 | 548 | 1 898 | 906 | 2 613 | 191 | (NA) | (NA) | | |
| | | 9 | 2 | 120 | 507 | 114 | 246 | 485 | 1 160 | 655 | 1 665 | 150 | 77 | 779 | | |
| 12 | MAHASKA COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | | |
| 1211 | BITUMINOUS COAL MINING | 6 | 2 | 81 | 299 | 78 | 151 | 291 | 775 | 473 | 1 098 | 150 | (NA) | (NA) | | |
| | BITUMINOUS COAL. | 17 | 2 | 169 | 769 | 158 | 363 | 690 | 2 318 | 1 164 | 3 119 | 363 | 205 | 2 437 | | |
| 12 | MARION COUNTY, TOTAL | 11 | 2 | 126 | 634 | 117 | 279 | 560 | 1 817 | 868 | 2 367 | 318 | 158 | 1 890 | | |
| 14 | BITUMINOUS COAL MINING | 6 | - | 43 | 135 | 41 | 84 | 130 | 501 | 296 | 752 | 45 | (NA) | (NA) | | |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 35 | 244 | 23 | 37 | 146 | 421 | 205 | 546 | 80 | (NA) | (NA) | | |
| 14 | MITCHELL COUNTY, TOTAL | 5 | 1 | 35 | 244 | 23 | 37 | 146 | 421 | 205 | 546 | 80 | 31 | 225 | | |
| | NONMETALLIC MINERALS MINING. | 4 | 2 | 66 | 411 | 51 | 102 | 244 | 1 294 | 396 | 1 493 | 197 | (NA) | (NA) | | |
| 14 | MUSCATINE COUNTY, TOTAL | 4 | 2 | 66 | 411 | 51 | 102 | 244 | 1 294 | 396 | 1 493 | 197 | 75 | 744 | | |
| | NONMETALLIC MINERALS MINING. | 12 | 1 | 97 | 508 | 80 | 186 | 429 | 1 487 | 493 | 1 794 | 186 | 124 | 2 096 | | |
| 14 | POLK COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | | |
| 144 | NONMETALLIC MINERALS MINING. | 8 | 1 | 95 | 498 | 78 | 183 | 419 | 1 462 | 490 | 1 766 | 186 | (NA) | (NA) | | |
| | SAND AND GRAVEL. | 7 | 1 | 85 | 364 | 71 | 181 | 304 | 1 174 | 404 | 1 435 | 143 | (NA) | (NA) | | |
| 14 | SCOTT COUNTY, TOTAL | 6 | 1 | 81 | 339 | 71 | 181 | 304 | 1 174 | 404 | 1 435 | 143 | 49 | 568 | | |
| | NONMETALLIC MINERALS MINING. | 6 | 1 | 58 | 240 | 54 | 136 | 213 | 959 | 327 | 1 183 | 103 | (NA) | (NA) | | |
| 14 | STORY COUNTY, TOTAL | 6 | 1 | 58 | 240 | 54 | 136 | 213 | 959 | 327 | 1 183 | 103 | (NA) | (NA) | | |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 74 | 318 | 73 | 229 | 314 | 746 | 306 | 797 | 255 | 44 | 462 | | |
| | VAN BUREN COUNTY, TOTAL | 5 | - | 42 | 167 | 37 | 89 | 149 | 509 | 167 | 597 | 79 | 44 | 554 | | |
| | WAPELLO COUNTY, TOTAL | 6 | - | 51 | 264 | 48 | 117 | 251 | 758 | 257 | 967 | 48 | 23 | 137 | | |
| 14 | WEBSTER COUNTY, TOTAL | 5 | - | 51 | 264 | 48 | 117 | 251 | 756 | 255 | 965 | 46 | 23 | 137 | | |
| | NONMETALLIC MINERALS MINING. | | | | | | | | | | | | | | | |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WINNESHIEK COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | 1 | - | - |
| O-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | 1 | - | - |
| WOODBURY COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| O-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| WORTH COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - |
| O-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - |
| WRIGHT COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| O-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| O-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

VALUE OF SHIPMENT - 9

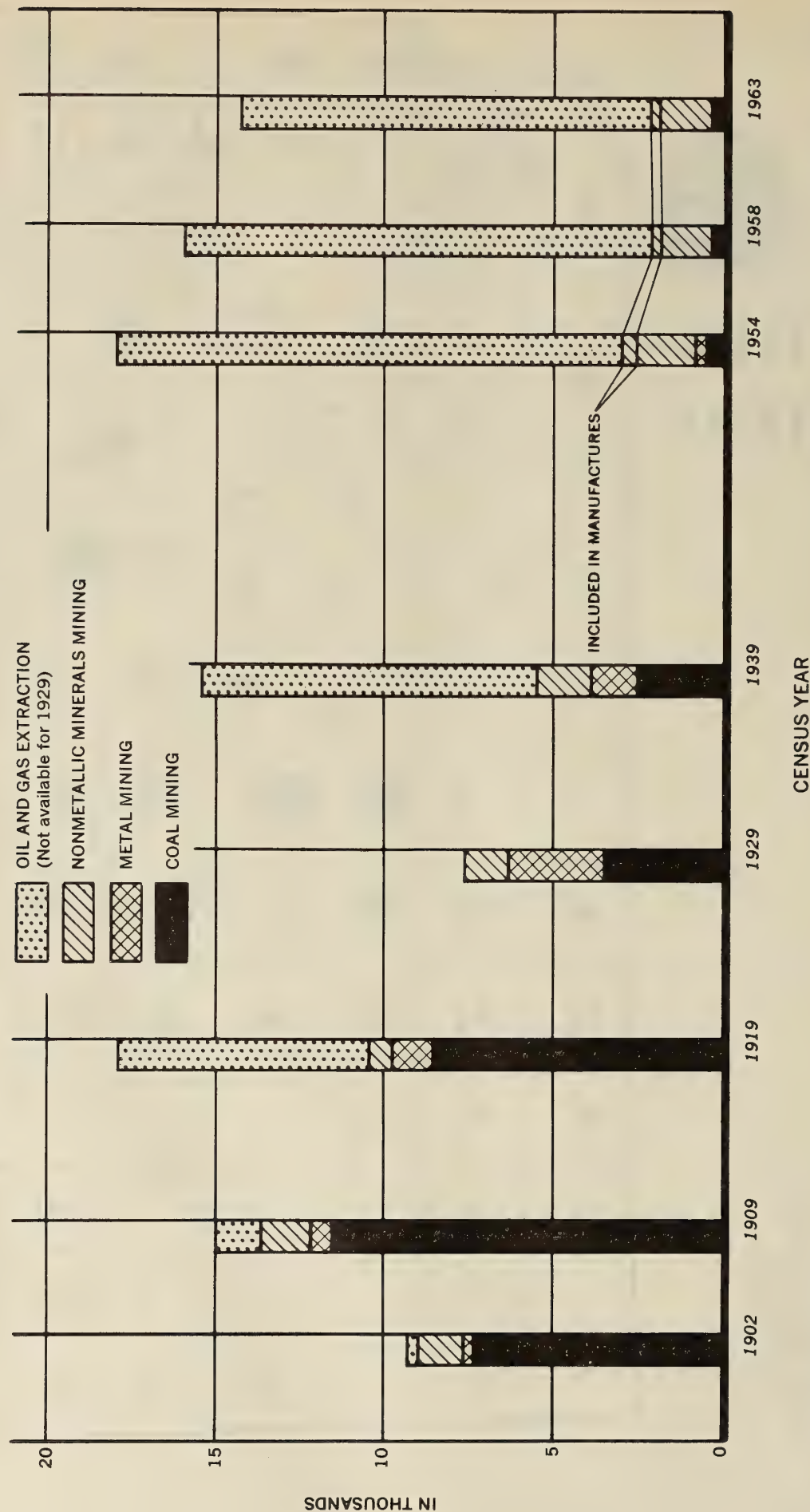
SCALE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

KANSAS



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 1 809 | 170 | 14 111 | 72 489 | 11 527 | 23 311 | 55 764 | 433 436 |
| 1958. | 1 599 | 189 | 15 776 | 73 028 | 12 603 | 25 073 | 53 455 | 378 353 |
| 1954. | 1 661 | 216 | 17 659 | 70 729 | 14 948 | 30 001 | 56 892 | 358 699 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | 1 852 | 173 | 14 383 | 73 477 | 11 791 | 23 842 | 56 726 | 438 748 |
| 1958. | 1 632 | 194 | 16 069 | 74 161 | 12 887 | 25 596 | 54 559 | 384 888 |
| 1954 ¹ | 1 689 | 221 | 18 046 | 71 983 | 15 329 | 30 768 | 58 130 | 362 804 |
| 1939 ² | ³ 956 | (NA) | 15 479 | 20 125 | 13 827 | 23 240 | 16 241 | 68 518 |
| 1919 ⁴ | 827 | (NA) | 17 954 | 25 356 | 16 193 | (NA) | 22 022 | 48 394 |
| 1909 ⁴ | 692 | (NA) | 15 044 | 10 339 | 14 357 | (NA) | 9 650 | 16 004 |
| 1902 ⁵ | ³ 462 | (NA) | 9 326 | 6 230 | ⁶ 8 745 | (NA) | 5 697 | 8 924 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | 286 | 26 | 2 158 | 11 185 | 1 861 | 3 957 | 9 316 | 27 302 |
| 1958. | 237 | 34 | 2 130 | 10 053 | 1 768 | 3 686 | 7 941 | 25 396 |
| 1954 ¹ | 296 | 37 | 3 032 | 11 621 | 2 623 | 5 648 | 9 690 | 25 746 |
| 1939. | ³ 216 | (NA) | 5 515 | 5 597 | 5 159 | 9 264 | 4 903 | 11 158 |
| 1929 ⁷ | 261 | (NA) | 7 689 | 9 493 | 7 297 | (NA) | 8 465 | 17 263 |
| 1919 ⁴ | 204 | (NA) | 10 456 | 13 529 | 9 885 | (NA) | 12 398 | 17 528 |
| 1909 ⁴ | 475 | (NA) | 13 756 | 9 519 | 13 332 | (NA) | 9 134 | 10 738 |
| 1902 ⁵ | ³ 393 | (NA) | 9 004 | 5 992 | ⁶ 8 499 | (NA) | 5 522 | 8 477 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|----------------------------------|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 75 073 | 99 577 | 68 950 | 30 074 | 615 141 | 91 969 | 11 902 | 1 033 | 1 564 |
| 1958. | 77 617 | 56 074 | 56 079 | 31 903 | 532 690 | 67 336 | 10 829 | 859 | (NA) |
| 1954. | 68 415 | ² 2 884 | 64 604 | 44 696 | 456 067 | 83 231 | 11 832 | 792 | 1 253 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ¹⁰ 76 001 | 99 577 | ¹⁰ 68 955 | ¹¹ 30 094 | 621 384 | ¹¹ 91 991 | ¹¹ 11 902 | 1 033 | ¹¹ 1 564 |
| 1958. | ¹⁰ 78 525 | 56 074 | ¹⁰ 56 081 | ¹¹ 31 911 | 540 135 | ¹¹ 67 344 | ¹¹ 10 833 | 841 | (NA) |
| 1954 ¹ | ¹⁰ 69 605 | ² 2 914 | ¹⁰ 64 636 | ¹¹ 44 721 | 461 400 | ¹¹ 83 280 | ¹¹ 11 839 | 772 | ¹¹ 1 256 |
| 1939 ² | 8 145 | (NA) | 12 418 | (NA) | 89 081 | (NA) | 3 829 | 277 | 430 |
| 1919 ⁴ | 37 583 | 298 | 4 063 | (NA) | 90 338 | (NA) | ¹² 5 327 | 329 | 136 |
| 1909 ⁴ | 1 928 | 393 | 398 | (NA) | 18 723 | (NA) | (NA) | (NA) | 67 |
| 1902 ⁵ | 1 465 | (NA) | 311 | (NA) | 10 700 | (NA) | (NA) | (NA) | 23 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ¹⁰ 8 693 | 245 | ¹⁰ 203 | ¹¹ 7 327 | 36 375 | ¹¹ 8 395 | ¹¹ 590 | 369 | ¹¹ 240 |
| 1958. | ¹⁰ 6 955 | 13 | ¹⁰ 686 | ¹¹ 2 132 | 32 696 | ¹¹ 2 486 | 378 | 214 | (NA) |
| 1954 ¹ | ¹⁰ 8 682 | 1 304 | ¹⁰ 086 | ¹¹ 2 459 | 36 939 | ¹¹ 2 338 | ¹¹ 950 | 362 | 253 |
| 1939. | 3 302 | (NA) | 74 | (NA) | 14 534 | (NA) | 429 | 83 | 144 |
| 1929 ⁷ | 4 987 | (NA) | 214 | 980 | 22 464 | (NA) | 740 | 101 | 77 |
| 1919 ⁴ | 4 174 | 11 | 110 | (NA) | 21 823 | (NA) | ¹² 1 740 | 176 | 40 |
| 1909 ⁴ | 1 075 | 123 | 105 | (NA) | 12 041 | (NA) | (NA) | (NA) | 30 |
| 1902 ⁵ | 1 002 | (NA) | 104 | (NA) | 9 583 | (NA) | (NA) | (NA) | 22 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Includes data for 4 or less machine-shop contractors with receipts for services amounting to less than \$227 thousand. Such contractors were not included in the 1958 and 1954 minerals censuses.

³Represents number of mines and quarries, number of natural gas liquids plants, and, for crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for sand, gravel, common clay, and shale mining operations and for stone quarries operated as parts of cement and lime plants. In 1939, there were 54 such mining operations with products valued at \$1,235 thousand.

⁵Includes data for 2 cement plants and for lime plants producing lime valued at \$7 thousand.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes data for one nonproducing operation.

⁸For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958 excludes the value of residue gas from natural gas liquids plants.

⁹Excludes the cost of natural gas received for processing, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to only 2 percent of the total kwh equivalent of energy used; and for "Excluding oil and gas extraction industries" in 1929, to 9 percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 1 852 | 173 | 14 383 | 73 477 | 11 791 | 23 842 | 56 726 |
| | MINERAL INDUSTRIES. | 1 809 | 170 | 14 111 | 72 489 | 11 527 | 23 311 | 55 764 |
| | INCLUDED IN MANUFACTURES. | 43 | 3 | ¹ 272 | ¹ 988 | ¹ 264 | 531 | 962 |
| 10 | METAL MINING. | 6 | - | 52 | 198 | 44 | 84 | 165 |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 14 | 3 | 264 | 2 044 | 238 | 506 | 1 773 |
| 13 | OIL AND GAS EXTRACTION. | 1 566 | 147 | 12 225 | 62 292 | 9 930 | 19 885 | 47 410 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . . | 1 047 | 86 | 7 394 | 40 191 | 5 696 | 11 509 | 28 830 |
| | CRUDE PETROLEUM | 986 | 76 | 6 645 | 35 226 | 5 154 | 10 442 | 25 232 |
| | NATURAL GAS | 61 | 10 | 749 | 4 965 | 542 | 1 067 | 3 598 |
| 1321 | NATURAL GAS LIQUIDS | 19 | 6 | 303 | 1 895 | 272 | 589 | 1 645 |
| 138 | OIL AND GAS FIELD SERVICES. | 500 | 55 | 4 528 | 20 206 | 3 962 | 7 787 | 16 935 |
| 1381 | DRILLING OIL AND GAS WELLS. | 205 | 31 | 2 288 | 10 963 | 2 013 | 3 929 | 9 177 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 17 | 3 | 256 | 1 318 | 196 | 441 | 954 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 278 | 21 | 1 984 | 7 925 | 1 753 | 3 417 | 6 804 |
| 14 | NONMETALLIC MINERALS MINING | 266 | 23 | 1 842 | 8 943 | 1 579 | 3 367 | 7 378 |
| | MINERAL INDUSTRIES. | 223 | 20 | 1 570 | 7 955 | 1 315 | 2 836 | 6 416 |
| | INCLUDED IN MANUFACTURES. | 43 | 3 | ¹ 272 | ¹ 988 | ¹ 264 | 531 | 962 |
| 1421 | CRUSHED AND BROKEN STONE. | 93 | 13 | 918 | 4 398 | 846 | 1 898 | 3 925 |
| | MINERAL INDUSTRY. | 84 | 11 | 797 | 4 021 | 725 | 1 656 | 3 548 |
| | INCLUDED IN MANUFACTURES. | 9 | 2 | ¹ 121 | ¹ 377 | ¹ 121 | 242 | 377 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 86 | 12 | 851 | 4 108 | 785 | 1 776 | 3 668 |
| | MINERAL SUBINDUSTRY | 77 | 10 | 730 | 3 731 | 664 | 1 534 | 3 291 |
| | INCLUDED IN MANUFACTURES. | 9 | 2 | ¹ 121 | ¹ 377 | ¹ 121 | 242 | 377 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY (MINERAL SUBINDUSTRY) | 7 | 1 | 67 | 290 | 61 | 122 | 257 |
| 1441 | SAND AND GRAVEL | 136 | 6 | 601 | 2 850 | 494 | 997 | 2 399 |
| | MINERAL INDUSTRY. | 128 | 6 | 580 | 2 763 | 473 | 956 | 2 312 |
| | INCLUDED IN MANUFACTURES. | 8 | - | ¹ 21 | ¹ 87 | ¹ 21 | 41 | 87 |
| | CLAY AND RELATED MINERALS; CLAY AND RELATED MINERALS, N.E.C. . . | 22 | 1 | ¹ 78 | ¹ 402 | ¹ 71 | 155 | 339 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 438 748 | ² 274 627 | ¹ 621 384 | ³ 91 991 | 16 069 | 384 888 | |
| | MINERAL INDUSTRIES. | 433 436 | 273 674 | 615 141 | 91 969 | 15 776 | 378 353 | |
| | INCLUDED IN MANUFACTURES. | 5 312 | ² 953 | ¹ 6 243 | ³ 22 | ¹ 293 | 6 535 | |
| 10 | METAL MINING. | | | | | 54 | 204 | |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 4 555 | 7 151 | 5 945 | 5 761 | 252 | 2 638 | |
| 13 | OIL AND GAS EXTRACTION. | 411 446 | 257 159 | 585 009 | 83 596 | 13 939 | 359 492 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . . | 350 739 | 113 645 | 403 579 | 60 805 | 9 370 | 312 879 | |
| | CRUDE PETROLEUM | 276 349 | 101 069 | 323 284 | 54 134 | (NA) | (NA) | |
| | NATURAL GAS | 74 390 | 12 576 | 80 295 | 6 671 | (NA) | (NA) | |
| 1321 | NATURAL GAS LIQUIDS | 16 500 | 119 910 | 120 100 | 16 410 | 328 | 11 788 | |
| 138 | OIL AND GAS FIELD SERVICES. | 44 107 | 23 604 | 61 330 | 6 381 | 4 241 | 34 825 | |
| 1381 | DRILLING OIL AND GAS WELLS. | 25 954 | 14 973 | 36 732 | 4 195 | 2 570 | 22 063 | |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 2 076 | 1 999 | 3 792 | 283 | 188 | 1 756 | |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 16 077 | 6 632 | 20 806 | 1 903 | 1 483 | 11 006 | |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 14 | NONMETALLIC MINERALS MINING | 22 747 | ² 10 317 | ¹ 30 430 | 2 634 | 1 824 | 22 554 |
| | MINERAL INDUSTRIES. | 17 435 | 9 364 | 24 187 | 2 612 | 1 531 | 16 019 |
| | INCLUDED IN MANUFACTURES. | 5 312 | ² 953 | ¹ 6 243 | ³ 22 | ¹ 293 | 6 535 |
| 1421 | CRUSHED AND BROKEN STONE. | 11 638 | ² 5 470 | ¹ 15 738 | (NA) | 901 | 11 656 |
| | MINERAL INDUSTRY. | 9 017 | 5 159 | 12 806 | 1 370 | 796 | 8 562 |
| | INCLUDED IN MANUFACTURES. | 2 621 | ² 311 | ¹ 2 932 | (NA) | ¹ 105 | 3 094 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 11 095 | ² 4 955 | ¹ 14 809 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY. | 8 474 | 4 644 | 11 877 | 1 241 | 744 | 8 159 |
| | INCLUDED IN MANUFACTURES. | 2 621 | ² 311 | ¹ 2 932 | (NA) | (NA) | (NA) |
| 1441 | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY (MINERAL SUBINDUSTRY) | 543 | 515 | 929 | 129 | 52 | 403 |
| | SAND AND GRAVEL | 6 987 | ² 3 627 | ¹ 9 439 | (NA) | 559 | 6 321 |
| | MINERAL INDUSTRY. | 6 504 | 3 581 | 8 910 | 1 175 | 512 | 5 306 |
| | INCLUDED IN MANUFACTURES. | 483 | ² 46 | ¹ 529 | (NA) | ¹ 47 | 1 015 |
| | CLAY AND RELATED MINERALS: CLAY AND RELATED MINERALS, N.E.C. . | 960 | ² 382 | ¹ 1 342 | (NA) | ¹ 59 | 1 039 |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c., Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963¹

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|---------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. | 273 674 | 75 073 | 99 577 | 68 950 | 30 074 | 91 969 | 31 458 | 60 511 | (X) | (X) | (X) | (X) |
| 10 & 12 | METAL MINING AND BITUMINOUS COAL MINING. | 7 151 | 1 431 | - | 45 | 5 675 | 5 761 | 47 | 5 714 | (X) | (X) | (X) | (X) |
| 13 | OIL AND GAS EXTRACTION . . . | 257 159 | 67 308 | 99 332 | 67 752 | 22 767 | 83 596 | 31 371 | 52 225 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 113 645 | 46 691 | - | 48 574 | 18 380 | 60 805 | 30 312 | 30 493 | (X) | 396 869 | (X) | 4 622 |
| | CRUDE PETROLEUM | 101 069 | 42 671 | - | 42 126 | 16 272 | 54 134 | 26 516 | 27 618 | ³ 100 933 | 284 858 | ³ 7 344 | 20 368 |
| | NATURAL GAS | 12 576 | 4 020 | - | 6 448 | 2 108 | 6 671 | 3 796 | 2 875 | ⁴ 470 916 | 64 033 | ⁴ 255 443 | 32 232 |
| 1321 | NATURAL GAS LIQUIDS . . . | 119 910 | 4 951 | 99 332 | 15 450 | 177 | 16 410 | - | 16 410 | ⁵ 13 061 | ⁵ 23 494 | - | - |
| 138 | OIL AND GAS FIELDS SERVICES | 23 604 | 15 666 | - | 3 728 | 4 210 | 6 381 | 1 059 | 5 322 | (X) | (X) | (X) | (X) |
| 1381 | DRILLING OIL AND GAS WELLS. | 14 973 | 9 691 | - | 2 846 | 2 436 | 4 195 | 1 058 | 3 137 | (X) | ⁶ 36 048 | (X) | (⁶) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . | 6 632 | 4 475 | - | 466 | 1 691 | 1 903 | 1 | 1 902 | (X) | ⁶ 21 005 | (X) | (⁶) |
| 14 | NONMETALLIC MINERALS MINING | 9 364 | 6 334 | 245 | 1 153 | 1 632 | 2 612 | 40 | 2 572 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE. CRUSHED AND BROKEN LIMESTONE. | 5 159 | ⁷ 4 131 | (⁷) | 131 | 897 | 1 370 | 20 | 1 350 | 8 860 | 12 767 | ⁸ 2 459 | ⁸ 2 832 |
| | | 4 644 | ⁷ 3 755 | (⁷) | 118 | 771 | 1 241 | 20 | 1 221 | 8 417 | 11 838 | ⁸ 2 459 | ⁸ 2 832 |
| 1441 | SAND AND GRAVEL | 3 581 | ⁷ 1 881 | (⁷) | 965 | 735 | 1 175 | 20 | 1 155 | 9 995 | ⁹ 8 778 | ⁸ 282 | (⁹) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁴Represents millions of cubic feet of natural gas shipped.⁵Represents net shipments of natural gas liquids only.⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁷Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁸Includes figures for minerals produced and used in the same establishment in making manufactured products.⁹Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 8.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 308 | 1 227 | 1 015 | 6 | 40 | 969 | 186 | 4 | 166 | 16 | 26 | 81 |
| | NUMBER OF EMPLOYEES..... | 9 128 | 9 017 | 7 057 | 46 | 74 | 6 937 | 1 625 | 139 | 1 305 | 181 | 335 | 111 |
| | VALUE ADDED IN MINING.....\$1,000.. | 389 315 | 389 549 | 352 315 | 408 | 823 | 351 084 | 20 325 | 1 972 | 16 090 | 2 263 | 16 909 | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 5 | 5 | 5 | 5 | - | - | - | - | - | - | - | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | - | - | - | - | - | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | - | - | - | - | - | - | - | - |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 14 | 14 | 7 | 1 | 6 | - | 7 | 1 | 6 | - | - | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | (D) | - | 249 | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | (D) | - | 4 065 | (D) | (D) | - | - | - |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 066 | 988 | 969 | - | - | 969 | - | - | - | - | 19 | 78 |
| | NUMBER OF EMPLOYEES..... | 7 329 | 7 240 | 6 937 | - | - | 6 937 | - | - | - | - | 303 | 89 |
| | VALUE ADDED IN MINING.....\$1,000.. | 367 350 | 367 584 | 351 084 | - | - | 351 084 | - | - | - | - | 16 500 | (²) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 047 | 969 | 969 | - | - | 969 | - | - | - | - | - | 78 |
| | NUMBER OF EMPLOYEES..... | 7 026 | 6 937 | 6 937 | - | - | 6 937 | - | - | - | - | - | 89 |
| | VALUE ADDED IN MINING.....\$1,000.. | 350 739 | 351 084 | 351 084 | - | - | 351 084 | - | - | - | - | - | (²) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 19 | 19 | - | - | - | - | - | - | - | - | 19 | - |
| | NUMBER OF EMPLOYEES..... | 303 | 303 | - | - | - | - | - | - | - | - | 303 | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 500 | 16 500 | - | - | - | - | - | - | - | - | 16 500 | - |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 223 | 220 | 34 | - | 34 | - | 179 | 3 | 160 | 16 | 7 | 3 |
| | NUMBER OF EMPLOYEES..... | 1 498 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | 181 | 32 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 17 435 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | 2 263 | 409 | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 84 | 82 | 12 | - | 12 | - | 70 | 1 | 69 | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | 780 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 9 017 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | - | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 128 | 127 | 16 | - | 16 | - | 104 | - | 88 | 16 | 7 | 1 |
| | NUMBER OF EMPLOYEES..... | 580 | (D) | (D) | - | (D) | - | (D) | - | (D) | 181 | 32 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 504 | (D) | (D) | - | (D) | - | (D) | - | (D) | 2 263 | 409 | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing data for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|---|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATION. | 1 852 | 173 | 14 383 | 73 477 | 11 791 | 23 842 | 56 726 | 438 748 | 274 627 | 621 384 | 91 991 | 16 069 | 384 888 |
| | MINERAL INDUSTRIES | 1 809 | 170 | 14 111 | 72 489 | 11 527 | 23 311 | 55 764 | 433 436 | 273 674 | 615 141 | 91 969 | 15 776 | 378 353 |
| | INCLUDED IN MANUFACTURES ² | 43 | 3 | 272 | 988 | 264 | 531 | 962 | 5 312 | 953 | 6 243 | 22 | 293 | 6 535 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| 13 | ALLEN COUNTY, TOTAL. | 65 | 1 | 185 | 953 | 145 | 372 | 739 | 2 467 | 1 646 | 3 338 | 775 | 146 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 46 | - | 113 | 465 | 77 | 156 | 286 | 1 909 | 945 | 2 226 | 628 | 104 | (NA) |
| 13 | ANDERSON COUNTY, TOTAL. | 21 | - | 57 | 219 | 50 | 101 | 198 | 621 | 353 | 911 | 63 | 132 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 10 | - | 42 | 169 | 36 | 73 | 150 | 507 | 293 | 748 | 52 | 93 | (NA) |
| 13 | BARBER COUNTY, TOTAL. | 104 | 2 | 241 | 1 232 | 208 | 418 | 1 021 | 8 600 | 5 403 | 11 881 | 2 122 | 384 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 63 | - | 113 | 648 | 96 | 200 | 515 | 7 273 | 2 912 | 8 263 | 1 922 | 211 | (NA) |
| 13 | BARTON COUNTY, TOTAL. | 283 | 14 | 1 269 | 7 037 | 1 022 | 2 138 | 5 409 | 27 316 | 10 565 | 34 200 | 3 681 | 1 715 | (NA) |
| | OIL AND GAS EXTRACTION | 279 | 13 | 1 239 | 6 900 | 1 018 | 2 128 | 5 389 | 27 249 | 10 484 | 34 056 | 3 677 | 1 675 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 161 | 7 | 697 | 4 094 | 554 | 1 100 | 3 106 | 21 699 | 7 842 | 26 387 | 3 154 | 1 074 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 118 | 6 | 542 | 2 806 | 464 | 1 028 | 2 283 | 5 550 | 2 642 | 7 669 | 523 | 601 | (NA) |
| 13 | BUTLER COUNTY, TOTAL. | 162 | 8 | 788 | 4 056 | 648 | 1 387 | 3 160 | 17 037 | 7 599 | 21 608 | 3 028 | 1 038 | (NA) |
| | OIL AND GAS EXTRACTION | 159 | 8 | 770 | 3 966 | 640 | 1 370 | 3 136 | 16 942 | 7 581 | 21 502 | 3 021 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 110 | 4 | 498 | 2 605 | 399 | 834 | 1 937 | 14 186 | 5 926 | 17 658 | 2 454 | 714 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 49 | 4 | 272 | 1 361 | 241 | 536 | 1 199 | 2 756 | 1 655 | 3 844 | 567 | 324 | (NA) |
| 13 | CHAUTAUQUA COUNTY, TOTAL. | 63 | 2 | 213 | 715 | 194 | 378 | 651 | 3 037 | 1 167 | 3 712 | 492 | 196 | (NA) |
| | OIL AND GAS EXTRACTION | 63 | 2 | 213 | 715 | 194 | 378 | 651 | 3 037 | 1 167 | 3 712 | 492 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 49 | - | 105 | 345 | 92 | 190 | 306 | 2 007 | 613 | 2 324 | 296 | 156 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 14 | 2 | 108 | 370 | 102 | 188 | 345 | 1 030 | 554 | 1 388 | 196 | (NA) | (NA) |
| 13 | CHEROKEE COUNTY, TOTAL. | 13 | 1 | 213 | 1 562 | 190 | 436 | 1 395 | 3 315 | 6 778 | 4 361 | 5 732 | 179 | 2 093 |
| | CLARK COUNTY, TOTAL. | 33 | - | 34 | 194 | 30 | 60 | 132 | 1 691 | 655 | 2 128 | 218 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 33 | - | 34 | 194 | 30 | 60 | 132 | 1 691 | 655 | 2 128 | 218 | 36 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 23 | - | 16 | 88 | 13 | 25 | 48 | 1 550 | 561 | 1 919 | 192 | 27 | (NA) |
| 13 | COFFEY COUNTY, TOTAL. | 29 | - | 43 | 158 | 39 | 65 | 133 | 514 | 350 | 675 | 189 | 17 | (NA) |
| | COMANCHE COUNTY, TOTAL. | 22 | - | 7 | 39 | 7 | 12 | 34 | 1 867 | 531 | 1 851 | 547 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 22 | - | 7 | 39 | 7 | 12 | 34 | 1 867 | 531 | 1 851 | 547 | 13 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 14 | - | 3 | 18 | 3 | 6 | 15 | 1 762 | 409 | 1 625 | 546 | (NA) | (NA) |
| 13 | COWLEY COUNTY, TOTAL. | 137 | 2 | 351 | 1 548 | 276 | 563 | 1 207 | 8 371 | 3 903 | 10 350 | 1 924 | 531 | (NA) |
| | OIL AND GAS EXTRACTION | 129 | 2 | 339 | 1 519 | 266 | 543 | 1 180 | 8 233 | 3 746 | 10 103 | 1 876 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 86 | 2 | 205 | 938 | 156 | 313 | 678 | 7 079 | 3 097 | 8 391 | 1 785 | 280 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 43 | - | 134 | 581 | 110 | 230 | 502 | 1 154 | 649 | 1 712 | 91 | 214 | (NA) |
| 13 | CRAWFORD COUNTY, TOTAL. | 19 | 3 | 155 | 873 | 131 | 230 | 684 | 1 892 | 914 | 2 616 | 190 | 192 | (NA) |
| | DECATUR COUNTY, TOTAL. | 29 | - | 25 | 134 | 24 | 50 | 123 | 956 | 416 | 1 130 | 242 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 18 | - | 18 | 104 | 17 | 37 | 95 | 860 | 276 | 919 | 217 | 23 | (NA) |
| 14 | DICKINSON COUNTY, TOTAL. | 16 | - | 51 | 257 | 42 | 80 | 211 | 655 | 260 | 764 | 151 | 55 | (NA) |
| | NONMETALLIC MINERALS MINING. | 8 | - | 37 | 198 | 34 | 68 | 186 | 502 | 204 | 606 | 100 | (NA) | (NA) |
| | EDWARDS COUNTY, TOTAL. | 47 | - | 40 | 177 | 29 | 48 | 102 | 1 325 | 576 | 1 619 | 282 | 59 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 28 | - | 15 | 68 | 13 | 20 | 53 | 928 | 451 | 1 169 | 210 | (NA) | (NA) |
| | ELK COUNTY, TOTAL. | 37 | 1 | 68 | 267 | 63 | 135 | 220 | 1 034 | 486 | 1 365 | 155 | 74 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 28 | - | 26 | 69 | 22 | 40 | 60 | 526 | 248 | 646 | 128 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-------------------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 13 131 | ELLIS COUNTY, TOTAL | 194 | 3 | 567 | 3 265 | 485 | 1 018 | 2 640 | 23 308 | 8 640 | 28 604 | 3 344 | 681 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 111 | 1 | 279 | 1 506 | 242 | 461 | 1 183 | 18 779 | 6 317 | 22 286 | 2 810 | 424 | (NA) |
| 13 131 | ELLSWORTH COUNTY, TOTAL | 77 | 2 | 205 | 1 054 | 180 | 356 | 854 | 9 855 | 19 544 | 16 186 | 13 213 | 248 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 44 | - | 54 | 325 | 47 | 87 | 261 | 3 279 | 1 142 | 3 966 | 455 | 133 | (NA) |
| 13 131 | FINNEY COUNTY, TOTAL | 67 | 1 | 141 | 751 | 94 | 182 | 391 | 9 719 | 12 910 | 21 739 | 890 | 173 | (NA) |
| | FORD COUNTY, TOTAL | 16 | - | 30 | 153 | 25 | 56 | 118 | 504 | 1 073 | 1 481 | 96 | 23 | (NA) |
| | FRANKLIN COUNTY, TOTAL | 25 | 1 | 96 | 433 | 86 | 168 | 378 | 1 192 | 570 | 1 513 | 249 | 105 | (NA) |
| 13 131 14 | OIL AND GAS EXTRACTION | 20 | - | 40 | 164 | 34 | 52 | 143 | 635 | 288 | 708 | 215 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 29 | 137 | 24 | 34 | 118 | 598 | 276 | 663 | 211 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 5 | 1 | 56 | 269 | 52 | 116 | 235 | 557 | 282 | 805 | 34 | 58 | 1 268 |
| 13 131 | GEARY COUNTY, TOTAL | 7 | - | 34 | 199 | 32 | 27 | 194 | 556 | 170 | 633 | 93 | 68 | (NA) |
| | GRAHAM COUNTY, TOTAL | 111 | - | 191 | 943 | 174 | 308 | 812 | 11 900 | 3 837 | 14 583 | 1 154 | 343 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 58 | - | 124 | 646 | 113 | 208 | 567 | 10 739 | 3 384 | 13 081 | 1 042 | 214 | (NA) |
| | GRANT COUNTY, TOTAL | 41 | 3 | 247 | 1 785 | 209 | 438 | 1 464 | 17 722 | 23 371 | 39 649 | 1 444 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 41 | 3 | 247 | 1 785 | 209 | 438 | 1 464 | 17 722 | 23 371 | 39 649 | 1 444 | 256 | (NA) |
| 13 131 132 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 19 | 2 | 141 | 1 070 | 113 | 221 | 844 | 14 332 | 1 637 | 15 169 | 800 | 78 | (NA) |
| | NATURAL GAS LIQUIDS | 4 | 1 | 61 | 416 | 58 | 118 | 388 | 2 832 | 21 085 | 23 417 | 500 | 93 | 5 686 |
| | OIL AND GAS FIELD SERVICES | 18 | - | 45 | 299 | 38 | 99 | 232 | 558 | 649 | 1 063 | 144 | (NA) | (NA) |
| 13 131 138 | GREENWOOD COUNTY, TOTAL | 139 | 3 | 439 | 2 020 | 349 | 722 | 1 598 | 7 728 | 3 427 | 10 125 | 1 030 | 663 | (NA) |
| | OIL AND GAS EXTRACTION | 139 | 3 | 434 | 1 987 | 349 | 722 | 1 598 | 7 728 | 3 427 | 10 125 | 1 030 | 663 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 96 | 3 | 314 | 1 470 | 235 | 482 | 1 116 | 6 461 | 2 874 | 8 400 | 935 | 487 | (NA) |
| 13 131 | OIL AND GAS FIELD SERVICES | 43 | - | 120 | 517 | 114 | 240 | 482 | 1 267 | 553 | 1 725 | 95 | 176 | (NA) |
| | HAMILTON COUNTY, TOTAL | 24 | - | 19 | 70 | 16 | 30 | 58 | 2 277 | 507 | 1 159 | 1 625 | 19 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 17 | - | 10 | 42 | 8 | 16 | 33 | 2 214 | 474 | 1 068 | 1 620 | (NA) | (NA) |
| | HARPER COUNTY, TOTAL | 59 | - | 96 | 469 | 86 | 172 | 401 | 3 258 | 1 309 | 3 747 | 820 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 34 | - | 54 | 365 | 48 | 93 | 312 | 2 965 | 1 158 | 3 391 | 732 | 108 | (NA) |
| | HARVEY COUNTY, TOTAL | 62 | - | 68 | 329 | 59 | 114 | 228 | 2 495 | 1 201 | 3 110 | 586 | 60 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 46 | - | 42 | 184 | 36 | 65 | 115 | 2 071 | 885 | 2 420 | 536 | (NA) | (NA) |
| | HASKELL COUNTY, TOTAL | 41 | - | 54 | 291 | 40 | 80 | 197 | 8 786 | 2 426 | 9 209 | 2 003 | 36 | (NA) |
| | OIL AND GAS EXTRACTION | 41 | - | 54 | 291 | 40 | 80 | 197 | 8 786 | 2 426 | 9 209 | 2 003 | (NA) | (NA) |
| 13 131 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 23 | - | 35 | 187 | 22 | 45 | 114 | 8 116 | 1 897 | 8 088 | 1 925 | 28 | (NA) |
| | OIL AND GAS FIELD SERVICES | 18 | - | 19 | 104 | 18 | 35 | 83 | 670 | 529 | 1 121 | 78 | (NA) | (NA) |
| | HODGEMAN COUNTY, TOTAL | 57 | 1 | 144 | 833 | 133 | 292 | 743 | 7 014 | 4 313 | 7 891 | 3 436 | (NA) | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 57 | 1 | 144 | 833 | 133 | 292 | 743 | 7 014 | 4 313 | 7 891 | 3 436 | 17 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 25 | - | 60 | 365 | 56 | 125 | 317 | 5 500 | 2 684 | 5 029 | 3 155 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 32 | 1 | 84 | 468 | 77 | 167 | 426 | 1 514 | 1 629 | 2 862 | 281 | (NA) | (NA) |
| 13 131 | JOHNSON COUNTY, TOTAL | 23 | - | 28 | 161 | 23 | 46 | 136 | 979 | 405 | 1 243 | 141 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 19 | - | 5 | 21 | 2 | 4 | 9 | 623 | 306 | 808 | 121 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 13 | - | 4 | 17 | 1 | 2 | 5 | 602 | 290 | 772 | 120 | (NA) | (NA) |
| 13 131 | KEARNY COUNTY, TOTAL | 29 | - | 23 | 90 | 15 | 28 | 62 | 5 494 | 5 344 | 10 539 | 299 | (NA) | (NA) |
| | KINGMAN COUNTY, TOTAL | 84 | 2 | 150 | 821 | 132 | 260 | 660 | 10 780 | 9 125 | 18 741 | 1 164 | 157 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|------------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 13 131 | KIOWA COUNTY, TOTAL | 43 | - | 25 | 134 | 21 | 42 | 99 | 3 737 | 917 | 4 255 | 399 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 26 | - | 8 | 50 | 7 | 11 | 36 | 3 591 | 791 | 3 995 | 387 | 59 | (NA) |
| | LINCOLN COUNTY, TOTAL | 3 | 1 | 61 | 295 | 56 | 137 | 271 | 631 | 470 | 989 | 112 | (NA) | (NA) |
| | LYON COUNTY, TOTAL | 18 | 1 | 49 | 186 | 44 | 100 | 163 | 554 | 385 | 822 | 117 | 33 | (NA) |
| 13 131 | MCPHERSON COUNTY, TOTAL | 132 | 2 | 353 | 1 391 | 300 | 501 | 1 110 | 6 290 | 2 724 | 8 266 | 748 | 371 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 87 | 1 | 180 | 690 | 149 | 272 | 537 | 4 534 | 1 898 | 5 790 | 642 | 213 | (NA) |
| 13 131 | MARION COUNTY, TOTAL | 104 | - | 165 | 741 | 147 | 273 | 643 | 4 372 | 1 707 | 5 386 | 693 | 248 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 69 | - | 94 | 380 | 80 | 136 | 300 | 3 488 | 1 374 | 4 257 | 605 | 138 | (NA) |
| | MARSHALL COUNTY, TOTAL | 11 | - | 31 | 140 | 26 | 57 | 122 | 639 | 217 | 767 | 89 | 27 | (NA) |
| 13 131 138 | MEADE COUNTY, TOTAL | 55 | - | 47 | 280 | 41 | 83 | 218 | 3 832 | 1 511 | 4 893 | 450 | 112 | (NA) |
| | OIL AND GAS EXTRACTION | 55 | - | 47 | 280 | 41 | 83 | 218 | 3 832 | 1 511 | 4 893 | 450 | 112 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 31 | - | 18 | 98 | 14 | 26 | 79 | 3 003 | 1 057 | 3 676 | 384 | 79 | (NA) |
| | OIL AND GAS FIELD SERVICES | 24 | - | 29 | 182 | 27 | 57 | 139 | 829 | 454 | 1 217 | 66 | 39 | (NA) |
| 13 131 | MIAMI COUNTY, TOTAL | 37 | - | 65 | 246 | 53 | 106 | 191 | 805 | 401 | 1 100 | 106 | 96 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 25 | - | 36 | 116 | 26 | 52 | 87 | 560 | 313 | 793 | 80 | 58 | (NA) |
| 13 131 | MONTGOMERY COUNTY, TOTAL | 61 | 1 | 134 | 460 | 96 | 186 | 320 | 1 685 | 711 | 1 989 | 407 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 61 | 1 | 134 | 460 | 96 | 186 | 320 | 1 685 | 711 | 1 989 | 407 | 218 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 53 | 1 | 117 | 413 | 80 | 152 | 274 | 1 513 | 630 | 1 777 | 366 | 118 | (NA) |
| 13 131 | MORRIS COUNTY, TOTAL | 21 | - | 40 | 190 | 36 | 64 | 175 | 840 | 446 | 1 205 | 81 | 32 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 9 | - | 14 | 64 | 11 | 22 | 52 | 616 | 238 | 837 | 17 | (NA) | (NA) |
| 13 131 | MORTON COUNTY, TOTAL | 67 | 1 | 159 | 989 | 141 | 302 | 876 | 13 664 | 4 349 | 15 789 | 2 224 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 67 | 1 | 159 | 989 | 141 | 302 | 876 | 13 664 | 4 349 | 15 789 | 2 224 | 57 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 39 | - | 69 | 463 | 56 | 118 | 392 | 12 379 | 3 103 | 13 424 | 2 058 | 22 | (NA) |
| 13 131 | NEOSHO COUNTY, TOTAL | 58 | 2 | 199 | 665 | 164 | 345 | 566 | 3 189 | 1 222 | 4 005 | 406 | 104 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 37 | 2 | 117 | 424 | 92 | 189 | 340 | 2 485 | 1 003 | 3 157 | 331 | (NA) | (NA) |
| 13 131 138 | NESS COUNTY, TOTAL | 80 | 1 | 136 | 753 | 127 | 249 | 673 | 3 089 | 1 382 | 3 138 | 1 333 | 90 | (NA) |
| | OIL AND GAS EXTRACTION | 80 | 1 | 136 | 753 | 127 | 249 | 673 | 3 089 | 1 382 | 3 138 | 1 333 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 33 | - | 47 | 302 | 47 | 94 | 286 | 2 274 | 958 | 1 954 | 1 178 | 17 | (NA) |
| | OIL AND GAS FIELD SERVICES | 47 | 1 | 89 | 451 | 80 | 155 | 387 | 815 | 524 | 1 184 | 155 | 73 | (NA) |
| 13 131 | NORTON COUNTY, TOTAL | 30 | - | 42 | 171 | 35 | 63 | 120 | 1 849 | 446 | 2 230 | 65 | 45 | (NA) |
| | OIL AND GAS EXTRACTION | 27 | - | 35 | 152 | 28 | 54 | 101 | 1 775 | 418 | 2 148 | 45 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 12 | - | 20 | 108 | 13 | 28 | 61 | 1 697 | 364 | 2 018 | 43 | 12 | (NA) |
| 13 131 | PAWNEE COUNTY, TOTAL | 79 | - | 80 | 415 | 70 | 133 | 302 | 3 025 | 1 110 | 3 405 | 730 | 105 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 42 | - | 37 | 199 | 34 | 60 | 143 | 2 625 | 888 | 2 859 | 654 | 68 | (NA) |
| 13 131 | PHILLIPS COUNTY, TOTAL | 37 | - | 154 | 812 | 73 | 155 | 363 | 4 500 | 1 648 | 5 719 | 429 | 92 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 21 | - | 61 | 334 | 53 | 109 | 258 | 4 280 | 1 500 | 5 417 | 363 | 80 | (NA) |
| 13 131 | PRATT COUNTY, TOTAL | 86 | 1 | 179 | 1 050 | 150 | 315 | 829 | 4 844 | 2 011 | 5 900 | 955 | 230 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 46 | - | 72 | 458 | 56 | 114 | 335 | 3 206 | 1 239 | 3 704 | 741 | 111 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|------------------|---------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ² | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 13 131 | RAWLINS COUNTY, TOTAL | 20 | - | 26 | 138 | 24 | 45 | 105 | 1 865 | 619 | 2 218 | 266 | 18 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 14 | - | 8 | 52 | 6 | 9 | 20 | 1 777 | 568 | 2 082 | 263 | (NA) | (NA) |
| 13 131 14 | RENO COUNTY, TOTAL | 92 | 1 | 217 | 1 255 | 145 | 300 | 658 | 4 339 | 4 097 | 5 170 | 3 266 | 260 | (NA) |
| | OIL AND GAS EXTRACTION | 84 | - | 114 | 561 | 101 | 204 | 448 | 3 514 | 3 758 | 4 082 | 3 190 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 44 | - | 72 | 334 | 61 | 125 | 256 | 2 908 | 1 181 | 3 185 | 904 | 114 | (NA) |
| 13 131 138 | NONMETALLIC MINERALS MINING | 8 | 1 | 48 | 238 | 44 | 96 | 210 | 825 | 339 | 1 088 | 76 | (NA) | (NA) |
| | RICE COUNTY, TOTAL | 185 | 2 | 453 | 2 189 | 396 | 729 | 1 776 | 13 672 | 6 930 | 17 068 | 3 534 | 471 | (NA) |
| | OIL AND GAS EXTRACTION | 181 | 2 | 418 | 2 010 | 368 | 680 | 1 642 | 13 464 | 6 738 | 16 707 | 3 495 | 443 | (NA) |
| 13 131 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 107 | 2 | 267 | 1 388 | 231 | 427 | 1 092 | 11 865 | 5 482 | 14 034 | 3 313 | 365 | (NA) |
| | OIL AND GAS FIELD SERVICES | 74 | - | 151 | 622 | 137 | 253 | 550 | 1 599 | 1 256 | 2 673 | 182 | (NA) | (NA) |
| | ROOKS COUNTY, TOTAL | 154 | 2 | 448 | 2 286 | 355 | 654 | 1 658 | 12 935 | 5 097 | 16 364 | 1 668 | 434 | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 154 | 2 | 428 | 2 140 | 355 | 654 | 1 658 | 12 935 | 5 097 | 16 364 | 1 668 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 88 | 1 | 209 | 1 189 | 175 | 351 | 924 | 11 382 | 4 228 | 14 139 | 1 471 | 310 | (NA) |
| | OIL AND GAS FIELD SERVICES | 66 | 1 | 219 | 951 | 180 | 303 | 734 | 1 553 | 869 | 2 225 | 197 | (NA) | (NA) |
| 13 131 138 | RUSH COUNTY, TOTAL | 51 | - | 77 | 428 | 61 | 129 | 319 | 1 949 | 934 | 1 958 | 925 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 51 | - | 77 | 428 | 61 | 129 | 319 | 1 949 | 934 | 1 958 | 925 | 62 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 22 | - | 40 | 231 | 28 | 63 | 149 | 949 | 434 | 1 004 | 379 | 29 | (NA) |
| 13 131 144 | OIL AND GAS FIELD SERVICES | 29 | - | 37 | 197 | 33 | 66 | 170 | 1 000 | 500 | 954 | 546 | (NA) | (NA) |
| | RUSSELL COUNTY, TOTAL | 217 | 5 | 752 | 3 566 | 609 | 1 224 | 2 744 | 21 543 | 8 826 | 26 955 | 3 414 | 710 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 112 | 3 | 350 | 1 877 | 286 | 602 | 1 390 | 17 984 | 6 875 | 22 052 | 2 807 | 503 | (NA) |
| 13 131 144 | SALINE COUNTY, TOTAL | 55 | 1 | 150 | 706 | 133 | 260 | 582 | 3 827 | 1 599 | 4 750 | 676 | 65 | (NA) |
| | OIL AND GAS EXTRACTION | 51 | 1 | 110 | 429 | 99 | 178 | 369 | 3 614 | 1 158 | 4 162 | 610 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 37 | - | 53 | 200 | 49 | 93 | 177 | 3 341 | 988 | 3 737 | 592 | (NA) | (NA) |
| 13 131 144 | NONMETALLIC MINERALS MINING | 4 | - | 35 | 235 | 34 | 82 | 213 | 441 | 588 | 66 | 66 | (NA) | (NA) |
| | SAND AND GRAVEL | 4 | - | 35 | 235 | 34 | 82 | 213 | 213 | 441 | 588 | 66 | (NA) | (NA) |
| | SEDGWICK COUNTY, TOTAL | 199 | 15 | 1 020 | 6 219 | 574 | 1 220 | 2 968 | 17 451 | 10 445 | 25 101 | 2 795 | 1 081 | (NA) |
| 13 131 144 | OIL AND GAS EXTRACTION | 182 | 15 | 855 | 4 955 | 529 | 1 105 | 2 746 | 16 664 | 10 216 | 24 159 | 2 721 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 134 | 12 | 625 | 3 871 | 326 | 717 | 1 850 | 12 568 | 3 507 | 13 511 | 2 564 | 876 | (NA) |
| | NONMETALLIC MINERALS MINING | 17 | - | 55 | 283 | 45 | 115 | 222 | 787 | 229 | 942 | 74 | (NA) | (NA) |
| 13 131 132 | SAND AND GRAVEL | 17 | - | 55 | 283 | 45 | 115 | 222 | 787 | 229 | 942 | 74 | (NA) | (NA) |
| | SEWARD COUNTY, TOTAL | 86 | 4 | 460 | 3 005 | 347 | 746 | 2 018 | 11 888 | 52 322 | 61 786 | 2 424 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 132 | CRUDE PETROLEUM AND NATURAL GAS . . | 35 | 2 | 123 | 883 | 94 | 188 | 617 | 5 693 | 1 283 | 5 942 | 1 034 | 87 | (NA) |
| | NATURAL GAS LIQUIDS | 4 | 1 | 57 | 359 | 47 | 88 | 285 | 1 802 | 48 782 | 49 710 | 874 | (NA) | (NA) |
| | SHAWNEE COUNTY, TOTAL | 14 | 2 | 103 | 492 | 92 | 209 | 432 | 1 406 | 562 | 1 829 | 139 | 58 | (NA) |
| 13 131 | SHERIDAN COUNTY, TOTAL | 19 | - | 26 | 137 | 23 | 44 | 122 | 827 | 165 | 982 | 10 | 57 | (NA) |
| | OIL AND GAS EXTRACTION | 19 | - | 26 | 137 | 23 | 44 | 122 | 827 | 165 | 982 | 10 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 9 | - | 16 | 101 | 15 | 31 | 97 | 781 | 153 | 929 | 5 | 52 | (NA) |
| 13 131 | STAFFORD COUNTY, TOTAL | 175 | - | 276 | 1 329 | 229 | 497 | 1 030 | 12 503 | 5 319 | 15 781 | 2 041 | 356 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 108 | - | 162 | 815 | 136 | 272 | 646 | 11 227 | 4 578 | 13 985 | 1 820 | 233 | (NA) |
| 13 131 | STANTON COUNTY, TOTAL | 17 | 1 | 39 | 259 | 33 | 64 | 224 | 3 119 | 642 | 3 583 | 178 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 17 | 1 | 39 | 259 | 33 | 64 | 224 | 3 119 | 642 | 3 583 | 178 | 21 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 14 | 1 | 33 | 237 | 27 | 55 | 202 | 3 093 | 600 | 3 515 | 178 | (NA) | (NA) |
| 13 131 | STEVENS COUNTY, TOTAL | 43 | - | 118 | 796 | 85 | 182 | 541 | 18 899 | 2 927 | 20 818 | 1 008 | 87 | (NA) |
| | OIL AND GAS EXTRACTION | 43 | - | 118 | 796 | 85 | 182 | 541 | 18 899 | 2 927 | 20 818 | 1 008 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 26 | - | 77 | 539 | 66 | 136 | 455 | 18 770 | 2 795 | 20 564 | 1 001 | 48 | (NA) |
| 13 131 | SUMNER COUNTY, TOTAL | 90 | 2 | 182 | 845 | 146 | 307 | 543 | 5 779 | 2 522 | 7 381 | 920 | 187 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 57 | 1 | 98 | 504 | 84 | 169 | 396 | 5 024 | 2 351 | 6 499 | 876 | 125 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 13 131 | TREGO COUNTY, TOTAL | 66 | 1 | 106 | 616 | 96 | 163 | 509 | 3 948 | 1 131 | 4 581 | 498 | 108 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | - | 56 | 326 | 49 | 103 | 247 | 3 193 | 865 | 3 669 | 389 | 65 | (NA) |
| 13 131 | WABAUNSEE COUNTY, TOTAL | 8 | - | 9 | 52 | 8 | 18 | 43 | 554 | 184 | 699 | 39 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 8 | - | 9 | 52 | 8 | 18 | 43 | 554 | 184 | 699 | 39 | 8 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 4 | - | 4 | 26 | 3 | 7 | 19 | 517 | 164 | 645 | 36 | (NA) | (NA) |
| 13 131 | WILSON COUNTY, TOTAL | 33 | 1 | 102 | 364 | 85 | 186 | 308 | 1 460 | 701 | 1 575 | 586 | 99 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 22 | - | 37 | 135 | 27 | 59 | 105 | 1 005 | 473 | 963 | 515 | (NA) | (NA) |
| 13 131 | WOODSON COUNTY, TOTAL | 63 | - | 87 | 249 | 76 | 142 | 217 | 1 595 | 934 | 1 759 | 770 | 92 | (NA) |
| | OIL AND GAS EXTRACTION | 63 | - | 87 | 249 | 76 | 142 | 217 | 1 595 | 934 | 1 759 | 770 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 40 | - | 56 | 167 | 45 | 85 | 141 | 1 486 | 866 | 1 589 | 763 | 79 | (NA) |
| 14 | WYANDOTTE COUNTY, TOTAL | 11 | 3 | 181 | 1 089 | 158 | 381 | 912 | 1 994 | 1 369 | 3 030 | 333 | 189 | 1 767 |
| | NONMETALLIC MINERALS MINING. | 11 | 3 | 181 | 1 089 | 158 | 381 | 912 | 1 994 | 1 369 | 3 030 | 333 | 189 | 1 767 |
| | UNDISTRIBUTED, TOTAL | 163 | 12 | 1 048 | 4 914 | 939 | 1 783 | 4 255 | 18 208 | 7 228 | 20 838 | 4 598 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 163 | 12 | 1 048 | 4 914 | 939 | 1 783 | 4 255 | 18 208 | 7 228 | 20 838 | 4 598 | 1 514 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 63 | 7 | 637 | 3 095 | 565 | 1 011 | 2 657 | 14 869 | 5 282 | 15 917 | 4 234 | 700 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 100 | 5 | 411 | 1 819 | 374 | 772 | 1 598 | 3 339 | 1 946 | 4 921 | 364 | 814 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing data for individual companies. (NA) Not available.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 M |
| SALINE COUNTY, TOTAL | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 37 | - | 14 | - | - | - | - | 4 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 54 | 54 | - | - | - | - | - | - | - | - | - | - | - | - | - | 37 | - | 13 | - | - | - | - | 4 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| SCOTT COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 6 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 6 | - | - | - | - | - | - | - | - | - | - | - |
| SEDGWICK COUNTY, TOTAL | 199 | 199 | - | - | - | - | - | - | - | - | - | - | - | - | - | 134 | 2 | 46 | - | - | - | 17 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 184 | 184 | - | - | - | - | - | - | - | - | - | - | - | - | - | 122 | - | 45 | - | - | - | 17 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| SEWARD COUNTY, TOTAL | 86 | 86 | - | - | - | - | - | - | - | - | - | - | - | - | - | 35 | 4 | 46 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 82 | 82 | - | - | - | - | - | - | - | - | - | - | - | - | - | 33 | 3 | 45 | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - |
| SHAWNEE COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | 4 | - | 7 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | 3 | - | 6 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| SHERIDAN COUNTY, TOTAL | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 10 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 10 | - | - | - | - | - | - | - | - | - | - | - |
| SHERMAN COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - |
| SMITH COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| STAFFORD COUNTY, TOTAL | 175 | 175 | - | - | - | - | - | - | - | - | - | - | - | - | - | 108 | - | 66 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 175 | 175 | - | - | - | - | - | - | - | - | - | - | - | - | - | 108 | - | 66 | - | - | - | 1 | - | - | - | - | - | - | - |
| STANTON COUNTY, TOTAL | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 3 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| STEVENS COUNTY, TOTAL | 43 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | - | 17 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 43 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | - | 17 | - | - | - | - | - | - | - | - | - | - | - |
| SUMNER COUNTY, TOTAL | 90 | 90 | - | - | - | - | - | - | - | - | - | - | - | - | - | 57 | - | 32 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 88 | 88 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | - | 31 | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| THOMAS COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - |
| TREGO COUNTY, TOTAL | 66 | 66 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 34 | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 65 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 34 | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WABAUNSEE COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 4 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 4 | - | - | - | - | - | - | - | - | - | - | - |
| WALLACE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| WICHITA COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| WILSON COUNTY, TOTAL | 33 | 33 | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | - | 9 | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 32 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | - | 9 | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WOODSON COUNTY, TOTAL | 63 | 63 | - | - | - | - | - | - | - | - | - | - | - | - | - | 44 | - | 19 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 63 | 63 | - | - | - | - | - | - | - | - | - | - | - | - | - | 44 | - | 19 | - | - | - | - | - | - | - | - | - | - | - |
| WYANDOTTE COUNTY, TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 7 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 6 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 163 | 163 | - | - | - | - | - | - | - | - | - | - | - | - | - | 63 | - | 100 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 151 | 151 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | - | 95 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

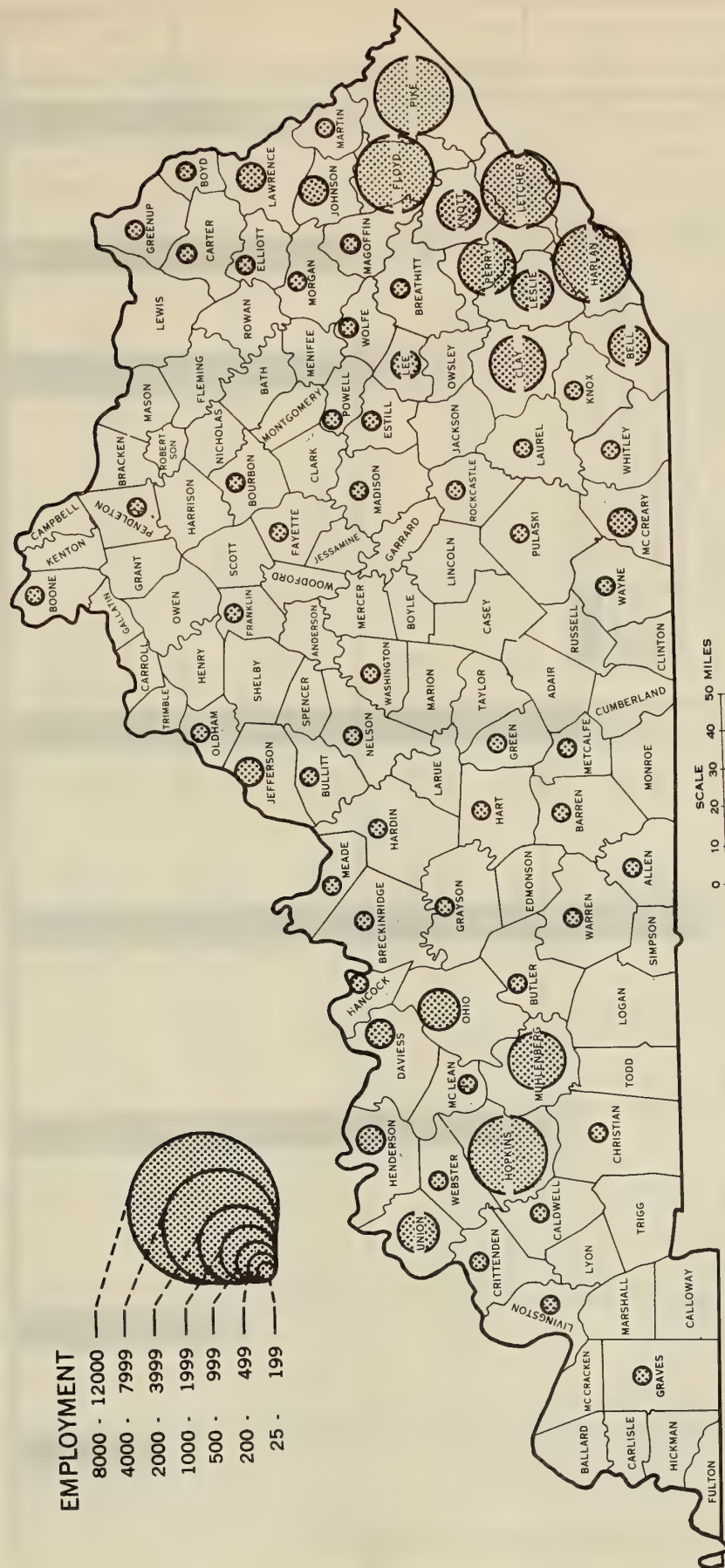
EMPLOYMENT IN MINING BY COUNTY: 1963

KENTUCKY

RANK AMONG STATES

EMPLOYMENT - 7

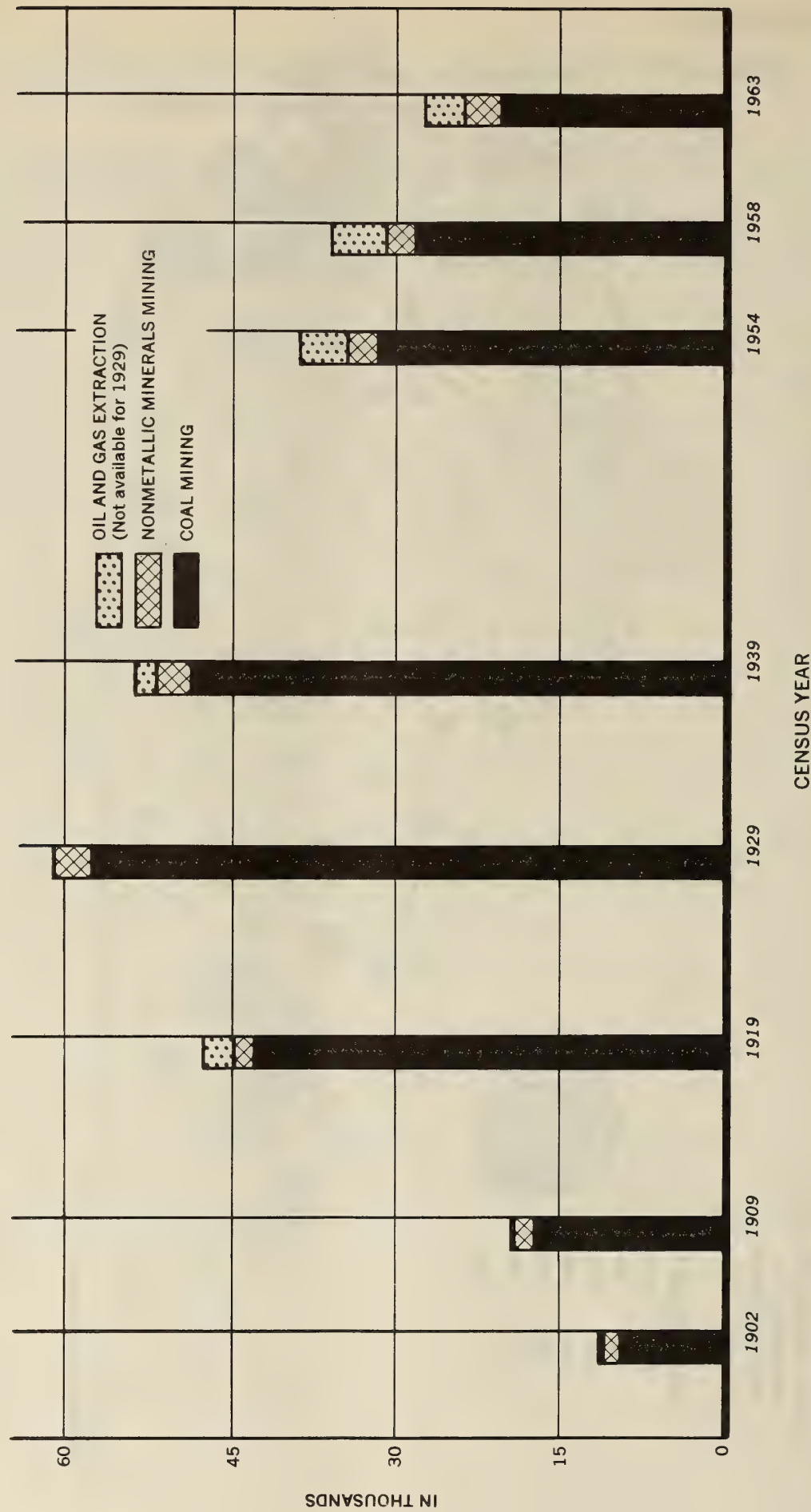
VALUE OF SHIPMENT - 11



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

KENTUCKY



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|---|--|--|----------------------------|--|---|-----------------------------------|--------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 2 066 | 319 | 27 771 | 131 575 | 24 899 | 45 351 | 115 110 | 337 367 |
| 1958 | 2 111 | 334 | 36 098 | 149 465 | 32 099 | 53 115 | 129 032 | 320 296 |
| 1954 | 1 816 | 337 | 38 895 | 139 313 | 35 820 | 59 659 | 124 149 | 272 103 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | 2 091 | 320 | 27 877 | 132 047 | 25 005 | 45 559 | 115 582 | 339 715 |
| 1958 | 2 123 | 334 | 36 134 | 149 586 | 32 135 | 53 187 | 129 153 | 321 348 |
| 1954 | 1 828 | 337 | 38 917 | 139 370 | 35 842 | 59 702 | 124 206 | 272 203 |
| 1939 ¹ | 2 743 | (NA) | 53 839 | 56 971 | 51 452 | 73 891 | 52 338 | 77 169 |
| 1919 ³ | 949 | (NA) | 47 591 | 56 955 | 43 631 | (NA) | 49 622 | 76 852 |
| 1909 ³ | 464 | (NA) | 19 349 | 8 810 | 18 316 | (NA) | 7 835 | 10 370 |
| 1902 ⁴ | 2 749 | (NA) | 11 581 | 5 909 | 10 687 | (NA) | 5 220 | 6 846 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | 1 402 | 282 | 23 890 | 115 078 | 21 603 | 39 143 | 101 713 | 262 299 |
| 1958 | 1 488 | 284 | 31 230 | 132 458 | 27 800 | 45 265 | 114 843 | 253 003 |
| 1954 | 1 325 | 285 | 34 522 | 126 273 | 31 794 | 52 475 | 112 536 | 212 468 |
| 1939 ¹ | 2 616 | (NA) | 52 046 | 55 153 | 49 825 | 71 492 | 50 876 | 68 326 |
| 1929 ⁶ | 554 | (NA) | 61 045 | 69 389 | 57 831 | (NA) | 62 799 | 87 676 |
| 1919 ³ | 745 | (NA) | 44 994 | 53 459 | 41 500 | (NA) | 46 963 | 58 127 |
| 1909 ³ | 377 | (NA) | 19 065 | 8 632 | 18 089 | (NA) | 7 710 | 9 752 |
| 1902 ⁴ | 2 633 | (NA) | 11 284 | 5 688 | 10 525 | (NA) | 5 097 | 7 030 |
| Kind of operation and year | Selected expenses | | | | | Energy used (kwh. equivalent) | | |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ⁷ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | Horsepower rating of power equipment (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 85 952 | 105 122 | 20 775 | 45 293 | 541 840 | 52 669 | 4 733 | 190 |
| 1958 | 88 587 | 75 908 | 24 617 | 28 063 | 492 520 | 44 951 | 4 143 | 129 |
| 1954 | 66 057 | 24 775 | 14 905 | 18 756 | 365 877 | 30 719 | 3 514 | 98 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | 986 450 | 105 122 | 920 775 | 1045 293 | 544 686 | 1052 669 | 104 733 | 190 |
| 1958 | 988 650 | 75 908 | 924 617 | 1028 063 | 493 635 | 1044 951 | 104 143 | 129 |
| 1954 | 966 162 | 24 775 | 914 905 | 1018 756 | 366 082 | 1030 719 | 103 514 | 98 |
| 1939 ¹ | 13 553 | (NA) | 1 084 | (NA) | 91 806 | (NA) | 2 322 | 45 |
| 1919 ³ | 18 261 | 1141 | 3 333 | (NA) | 98 487 | (NA) | 125 885 | 135 |
| 1909 ³ | 1 544 | - | 186 | (NA) | 12 100 | (NA) | (NA) | 53 |
| 1902 ⁴ | 1 276 | (NA) | 411 | (NA) | 8 533 | (NA) | (NA) | 20 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | 972 503 | 61 416 | 99 614 | 1039 039 | 408 603 | 1036 268 | 102 965 | 138 |
| 1958 | 973 958 | 63 274 | 98 793 | 1022 244 | 397 972 | 1023 300 | 102 066 | 74 |
| 1954 | 955 099 | 23 286 | 94 270 | 1012 152 | 293 586 | 1013 689 | 101 486 | 47 |
| 1939 ¹ | 12 683 | (NA) | 199 | (NA) | 81 208 | (NA) | 1 964 | 39 |
| 1929 ⁶ | 16 102 | (NA) | 72 | 3 031 | 103 850 | (NA) | 4 382 | 76 |
| 1919 ³ | 13 962 | - | 3 068 | (NA) | 75 157 | (NA) | 125 512 | 133 |
| 1909 ³ | 1 366 | - | 90 | (NA) | 11 208 | (NA) | (NA) | 49 |
| 1902 ⁴ | 943 | (NA) | 21 | (NA) | 7 994 | (NA) | (NA) | 17 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for dimension stone dressing plants, if any, operated in conjunction with 3 dimension stone quarries. For "All operations," includes data for one or two oil and gas field hauling operations with receipts for services amounting to less than \$45 thousand; such operations were not classified in the mineral industries for 1958 and 1954. For "Excluding oil and gas extractions operations," except for number of establishments, includes 3 nonproducing operations in the Crude Petroleum and Natural Gas Industry.

²Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

³Excludes data for sand, gravel, common clay, and shale operations; and limestone quarries operated as parts of lime plants. In 1939, the value of products of common clay and shale operations was \$61 thousand. In 1929, the value of products of sand and gravel establishments was \$1,348 thousand. For "Excluding oil and gas extractions operations" in 1909, except for number of establishments, includes data for 2 non-producing operations in the Crude Petroleum and Natural Gas Industry.

⁴Excludes data for sand, gravel, common clay, and shale operations. Includes data for one cement plant and for lime plants producing lime valued at \$16 thousand.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

ments which operated for a shorter period.

⁶Excludes data for common clay and shale operations. The value of products of such operations in 1939 was \$61 thousand. For "Excluding oil and gas extraction industries," excludes nonproducing establishments.

⁷For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁸Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

⁹For sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for sand and gravel and clay mining operations in manufacturing establishments, and, for 1963, dimension stone in manufacturers.

¹¹Includes natural gas purchased for resale.

¹²Excludes purchased electric energy for "All operations." In 1939, the quantity of purchased electric energy amounted to 8 percent of the total kwh equivalent of energy used; and, for "Excluding oil and gas extraction industries" in 1929, to only 4 percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 091 | 320 | 27 877 | 132 047 | 25 005 | 45 559 | 115 582 |
| | MINERAL INDUSTRIES | 2 066 | 319 | 27 771 | 131 575 | 24 899 | 45 351 | 115 110 |
| | INCLUDED IN MANUFACTURES | 25 | 1 | ¹ 106 | ¹ 472 | ¹ 106 | 208 | 472 |
| 12 | BITUMINOUS COAL MINING | 1 203 | 222 | 20 785 | 101 490 | 18 931 | 33 208 | 90 698 |
| 1211 | BITUMINOUS COAL | 1 194 | 222 | 20 740 | 101 309 | 18 888 | 33 129 | 90 534 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 9 | - | 45 | 181 | 43 | 79 | 164 |
| 13 | OIL AND GAS EXTRACTION | 689 | 38 | 3 987 | 16 969 | 3 402 | 6 416 | 13 869 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 455 | 20 | 2 566 | 11 267 | 2 111 | 3 930 | 8 851 |
| | CRUDE PETROLEUM | 405 | 17 | 1 766 | 7 310 | 1 459 | 2 742 | 5 887 |
| | NATURAL GAS | 50 | 3 | 800 | 3 957 | 552 | 1 188 | 2 964 |
| 1321 | NATURAL GAS LIQUIDS | 5 | 3 | 144 | 957 | 118 | 238 | 755 |
| 138 | OIL AND GAS FIELD SERVICES | 229 | 15 | 1 277 | 4 745 | 1 173 | 2 248 | 4 263 |
| 1381 | DRILLING OIL AND GAS WELLS | 182 | 9 | 836 | 3 023 | 766 | 1 432 | 2 692 |
| 14 | NONMETALLIC MINERALS MINING | 199 | 60 | 3 105 | 13 588 | 2 672 | 5 935 | 11 015 |
| | MINERAL INDUSTRIES | 174 | 59 | 2 999 | 13 116 | 2 566 | 5 727 | 10 543 |
| | INCLUDED IN MANUFACTURES | 25 | 1 | ¹ 106 | ¹ 472 | ¹ 106 | 208 | 472 |
| 1421 | CRUSHED AND BROKEN STONE INDUSTRY: MINERAL INDUSTRY (LIMESTONE) | 108 | 47 | 2 159 | 9 291 | 1 872 | 4 218 | 7 504 |
| | SAND AND GRAVEL | 42 | 5 | ¹ 400 | ¹ 2 067 | ¹ 312 | 788 | 1 611 |
| 1441 | MINERAL INDUSTRY | 33 | 5 | 387 | 2 015 | 299 | 762 | 1 559 |
| 145 | CLAY AND RELATED MINERALS | 26 | 4 | 207 | 992 | 186 | 392 | 790 |
| | MINERAL INDUSTRIES | 15 | 4 | 162 | 816 | 141 | 305 | 614 |
| | INCLUDED IN MANUFACTURES | 11 | - | ¹ 45 | ¹ 176 | ¹ 45 | 87 | 176 |
| 1453 | FIRE CLAY: MINERAL INDUSTRY | 8 | 1 | 35 | 152 | 29 | 48 | 123 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 339 715 | ² 257 643 | ¹ 544 686 | (NA) | 36 134 | 321 348 |
| | MINERAL INDUSTRIES | 337 367 | 257 142 | 541 840 | 52 669 | 36 098 | 320 296 |
| | INCLUDED IN MANUFACTURES | 2 348 | ² 501 | ¹ 2 846 | (NA) | ¹ 36 | 1 052 |
| 12 | BITUMINOUS COAL MINING | 219 845 | 163 580 | 353 699 | 29 726 | 28 512 | 228 807 |
| 1211 | BITUMINOUS COAL | 219 303 | 163 266 | 353 149 | 29 420 | 28 397 | 227 458 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 542 | 314 | 550 | 306 | 115 | 1 349 |
| 13 | OIL AND GAS EXTRACTION | 77 416 | 75 068 | 136 083 | 16 401 | 4 904 | 68 345 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 58 780 | 24 704 | 69 283 | 14 201 | 3 091 | 51 640 |
| | CRUDE PETROLEUM | 45 824 | 20 499 | 57 335 | 8 988 | 2 200 | 36 186 |
| | NATURAL GAS | 12 956 | 4 205 | 11 948 | 5 213 | 891 | 15 454 |
| 1321 | NATURAL GAS LIQUIDS | 9 668 | 45 062 | 54 586 | 144 | 173 | 8 023 |
| 138 | OIL AND GAS FIELD SERVICES | 8 968 | 5 302 | 12 214 | 2 056 | 1 640 | 8 682 |
| 1381 | DRILLING OIL AND GAS WELLS | 5 649 | 3 245 | 8 034 | 860 | 1 355 | 7 194 |
| 14 | NONMETALLIC MINERALS MINING | 42 454 | ² 18 995 | ¹ 54 904 | (NA) | 2 718 | 24 196 |
| | MINERAL INDUSTRIES | 40 106 | 18 494 | 52 058 | 6 542 | ² 682 | ² 23 144 |
| | INCLUDED IN MANUFACTURES | 2 348 | ² 501 | ¹ 2 846 | (NA) | ¹ 36 | 1 052 |
| 1421 | CRUSHED AND BROKEN STONE INDUSTRY: MINERAL INDUSTRY (LIMESTONE) | 30 142 | 12 001 | 37 151 | 4 992 | 1 801 | 15 478 |
| | SAND AND GRAVEL | 5 724 | ² 2 993 | ¹ 7 870 | (NA) | (NA) | (NA) |
| 1441 | MINERAL INDUSTRY | 5 424 | 2 961 | 7 538 | 847 | 362 | 3 713 |
| 145 | CLAY AND RELATED MINERALS | 3 218 | ² 1 501 | ¹ 4 317 | (NA) | ¹ 385 | 3 648 |
| | MINERAL INDUSTRIES | 2 606 | 1 313 | 3 517 | 402 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES | 612 | ² 188 | ¹ 800 | (NA) | (NA) | (NA) |
| 1453 | FIRE CLAY: MINERAL INDUSTRY | 451 | 381 | 779 | 53 | 231 | 1 450 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Includes figures for the Kentucky operations of 4 service establishments primarily engaged in metal mining services in other States.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 257 142 | 85 952 | 105 122 | 20 775 | 45 293 | 52 669 | 7 807 | 44 862 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING. . . . | 163 580 | 60 096 | 59 946 | 8 369 | 35 169 | 29 726 | 788 | 28 938 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 163 266 | 60 015 | 59 946 | 8 365 | 34 940 | 29 420 | 788 | 28 632 | 76 457 | 293 931 | - | - |
| 13 | OIL AND GAS EXTRACTION. . . . | 75 068 | 13 947 | 43 706 | 11 161 | 6 254 | 16 401 | 6 744 | 9 657 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 24 704 | 9 171 | - | 10 699 | 4 834 | 14 201 | 6 615 | 7 586 | (x) | 68 466 | (x) | 507 |
| | CRUDE PETROLEUM | 20 499 | 7 380 | - | 9 235 | 3 884 | 8 988 | 4 179 | 4 809 | 318 704 | 53 960 | 3183 | 533 |
| | NATURAL GAS | 4 205 | 1 791 | - | 1 464 | 950 | 5 213 | 2 436 | 2 777 | 456 745 | 11 665 | 11 761 | 2 815 |
| 1321 | NATURAL GAS LIQUIDS | 45 062 | 1 344 | 43 706 | 6 | 6 | 144 | - | 144 | 54 692 | 59 654 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. . . . | 5 302 | 3 432 | - | 456 | 1 414 | 2 056 | 129 | 1 927 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 3 245 | 2 530 | - | 410 | 305 | 860 | 129 | 731 | (x) | 67 937 | (x) | (6) |
| 14 | NONMETALLIC MINERALS MINING . . | 18 494 | 11 909 | 1 470 | 1 245 | 3 870 | 6 542 | 275 | 6 267 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE (LIMESTONE). | 12 001 | 8 269 | 60 | 792 | 2 880 | 4 992 | 249 | 4 743 | 24 138 | 34 472 | 7119 | 7152 |
| 1441 | SAND AND GRAVEL | 2 961 | 82 094 | (8) | 239 | 628 | 847 | 3 | 844 | 6 556 | 97 500 | (D) | (9) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁴Represents millions of cubic feet of natural gas shipped.

⁵Represents net shipments of natural gas liquids only. Quantity figures are in thousands of barrels.

⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁷Excludes figures for minerals produced and used in the same establishment.

⁸Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁹Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. Represents value of gross shipments. See also footnote 7.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 824 | 1 750 | 1 330 | 848 | 45 | 437 | 359 | 180 | 150 | 29 | 61 | 74 |
| | NUMBER OF EMPLOYEES..... | 26 193 | 26 134 | 12 248 | 8 092 | 458 | 3 698 | 12 987 | 8 529 | 3 260 | 1 198 | 899 | 59 |
| | VALUE ADDED IN MINING.....\$1,000.. | 326 573 | 326 905 | 138 240 | 52 522 | 12 997 | 72 721 | 165 813 | 76 642 | 72 543 | 16 628 | 22 852 | (2) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 194 | 1 192 | 924 | 846 | 28 | 50 | 216 | 162 | 33 | 21 | 52 | 2 |
| | NUMBER OF EMPLOYEES..... | 20 536 | (D) | 9 627 | (D) | (D) | 1 181 | 10 222 | (D) | 1 315 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 218 117 | (D) | 77 936 | (D) | (D) | 13 592 | 128 381 | (D) | 43 494 | (D) | (D) | (D) |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 194 | 1 192 | 924 | 846 | 28 | 50 | 216 | 162 | 33 | 21 | 52 | 2 |
| | NUMBER OF EMPLOYEES..... | 20 536 | (D) | 9 627 | (D) | (D) | 1 181 | 10 222 | (D) | 1 315 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 218 117 | (D) | 77 936 | (D) | (D) | 13 592 | 128 381 | (D) | 43 494 | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 455 | 387 | 387 | - | - | 387 | - | - | - | - | - | 68 |
| | NUMBER OF EMPLOYEES..... | 2 567 | 2 517 | 2 517 | - | - | 2 517 | - | - | - | - | - | 50 |
| | VALUE ADDED IN MINING.....\$1,000.. | 58 806 | 59 129 | 59 129 | - | - | 59 129 | - | - | - | - | - | (2) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 170 | 166 | 19 | 2 | 17 | - | 143 | 18 | 117 | 8 | 4 | 4 |
| | NUMBER OF EMPLOYEES..... | 2 946 | (D) | 104 | (D) | (D) | - | 2 765 | (D) | 1 945 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 39 982 | (D) | 1 175 | (D) | (D) | - | 37 432 | (D) | 29 049 | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 108 | 106 | 1 | - | 1 | - | 104 | 16 | 86 | 2 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 2 152 | (D) | (D) | - | (D) | - | 2 113 | (D) | 1 626 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 30 284 | (D) | (D) | - | (D) | - | 29 713 | (D) | 24 019 | (D) | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|---------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 2 091 | 320 | 27 877 | 132 047 | 25 005 | 45 559 | 115 582 | 339 715 | 257 643 | 544 686 | (NA) | 36 134 | 321 348 |
| | MINERAL INDUSTRIES | 2 066 | 319 | 27 771 | 131 575 | 24 899 | 45 351 | 115 110 | 337 367 | 257 142 | 541 840 | 52 669 | 36 098 | 320 296 |
| | INCLUDED IN MANUFACTURES ² | 25 | 1 | 106 | 472 | 106 | 208 | 472 | 2 348 | 501 | 2 846 | (NA) | 36 | 1 052 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BARREN COUNTY, TOTAL | 17 | 1 | 36 | 122 | 34 | 61 | 110 | 676 | 401 | 907 | 170 | 31 | (NA) |
| | BELL COUNTY, TOTAL | 86 | 6 | 505 | 1 719 | 472 | 792 | 1 604 | 4 808 | 3 983 | 8 232 | 559 | 688 | (NA) |
| | BOYD COUNTY, TOTAL | 10 | - | 29 | 135 | 27 | 56 | 124 | 431 | 1 960 | 2 223 | 168 | 321 | (NA) |
| | BREATHITT COUNTY, TOTAL | 20 | 2 | 127 | 635 | 93 | 176 | 515 | 1 200 | 371 | 1 466 | 105 | 488 | (NA) |
| | BRECKINRIDGE COUNTY, TOTAL | 12 | - | 33 | 132 | 29 | 54 | 112 | 580 | 224 | 765 | 39 | 56 | (NA) |
| | BUTLER COUNTY, TOTAL | 31 | - | 89 | 311 | 82 | 146 | 278 | 1 018 | 300 | 1 172 | 146 | 105 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 25 | - | 41 | 132 | 37 | 59 | 109 | 653 | 262 | 789 | 126 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 33 | 113 | 29 | 43 | 90 | 614 | 228 | 726 | 116 | (NA) | (NA) |
| | CALDWELL COUNTY, TOTAL | 7 | 2 | 93 | 393 | 86 | 177 | 370 | 1 788 | 729 | 2 366 | 151 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 3 | 2 | 79 | 323 | 72 | 148 | 300 | 1 609 | 669 | 2 136 | 142 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 3 | 2 | 79 | 323 | 72 | 148 | 300 | 1 609 | 669 | 2 136 | 142 | 112 | 634 |
| | CARTER COUNTY, TOTAL | 15 | 3 | 121 | 374 | 99 | 192 | 314 | 828 | 959 | 1 543 | 244 | 326 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 10 | 3 | 101 | 342 | 79 | 168 | 282 | 814 | 862 | 1 466 | 210 | 228 | 1 452 |
| 142 | CRUSHED AND BROKEN STONE | 3 | 2 | 56 | 187 | 50 | 119 | 156 | 406 | 470 | 723 | 153 | (NA) | (NA) |
| | CHRISTIAN COUNTY, TOTAL | 22 | 2 | 120 | 563 | 112 | 238 | 519 | 2 612 | 844 | 2 856 | 600 | 133 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 19 | 1 | 52 | 216 | 48 | 91 | 185 | 783 | 421 | 1 022 | 182 | 58 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | 1 | 45 | 198 | 41 | 78 | 168 | 748 | 410 | 993 | 165 | 45 | (NA) |
| | CLAY COUNTY, TOTAL | 40 | 21 | 1 179 | 3 326 | 1 098 | 1 857 | 3 050 | 5 656 | 7 027 | 11 992 | 691 | 1 149 | (NA) |
| 1211 | BITUMINOUS COAL | 37 | 21 | 1 162 | 3 236 | 1 083 | 1 830 | 2 960 | 5 312 | 6 960 | 11 709 | 563 | (NA) | (NA) |
| | CRITTENDEN COUNTY, TOTAL | 8 | 3 | 162 | 464 | 140 | 226 | 352 | 1 490 | 1 685 | 3 084 | 91 | 70 | 726 |
| | DAVIESS COUNTY, TOTAL | 128 | 3 | 488 | 2 246 | 413 | 841 | 1 922 | 9 089 | 3 495 | 11 468 | 1 116 | 517 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 120 | 1 | 334 | 1 257 | 283 | 525 | 1 041 | 6 257 | 2 063 | 7 535 | 785 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 83 | 1 | 227 | 810 | 182 | 322 | 623 | 5 251 | 1 702 | 6 285 | 668 | 290 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 37 | - | 107 | 447 | 101 | 203 | 418 | 1 006 | 361 | 1 250 | 117 | (NA) | (NA) |
| | ESTILL COUNTY, TOTAL | 15 | 2 | 103 | 504 | 82 | 185 | 420 | 1 428 | 3 523 | 4 585 | 366 | 53 | (NA) |
| | FAYETTE COUNTY, TOTAL | 12 | 2 | 133 | 435 | 117 | 264 | 370 | 1 378 | 516 | 1 714 | 180 | (NA) | (NA) |
| | FLOYD COUNTY, TOTAL | 182 | 23 | 2 614 | 13 331 | 2 415 | 4 303 | 12 300 | 29 875 | 28 677 | 56 697 | 1 855 | 3 324 | (NA) |
| 12 | BITUMINOUS COAL MINING | 155 | 20 | 2 405 | 12 303 | 2 247 | 3 990 | 11 543 | 23 510 | 23 595 | 46 307 | 798 | 3 047 | 22 577 |
| 1211 | BITUMINOUS COAL | 155 | 20 | 2 405 | 12 303 | 2 247 | 3 990 | 11 543 | 23 510 | 23 595 | 46 307 | 798 | (NA) | (NA) |
| | GRAVES COUNTY, TOTAL | 3 | 2 | 99 | 442 | 81 | 187 | 310 | 1 823 | 536 | 2 122 | 237 | (NA) | (NA) |
| | HANCOCK COUNTY, TOTAL | 23 | - | 40 | 173 | 34 | 62 | 126 | 737 | 368 | 1 025 | 80 | 68 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 30 | 100 | 27 | 47 | 87 | 579 | 236 | 737 | 78 | (NA) | (NA) |
| | HARDIN COUNTY, TOTAL | 5 | 2 | 87 | 372 | 76 | 156 | 304 | 1 159 | 746 | 1 522 | 383 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | 2 | 87 | 372 | 76 | 156 | 304 | 1 159 | 746 | 1 522 | 383 | 76 | 1 244 |
| 142 | CRUSHED AND BROKEN STONE | 5 | 2 | 87 | 372 | 76 | 156 | 304 | 1 159 | 746 | 1 522 | 383 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|------------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 12 1211 | HARLAN COUNTY, TOTAL | 111 | 26 | 2 645 | 13 090 | 2 346 | 4 166 | 10 782 | 20 211 | 9 024 | 29 871 | 1 530 | 4 089 | (NA) |
| | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | BITUMINOUS COAL. | 106 | 26 | 2 611 | 12 982 | 2 314 | 4 102 | 10 681 | 19 889 | 8 938 | 29 501 | 1 427 | (NA) | (NA) |
| | HART COUNTY, TOTAL | 13 | - | 31 | 94 | 18 | 33 | 54 | 538 | 102 | 602 | 38 | 30 | (NA) |
| | HENDERSON COUNTY, TOTAL. | 118 | 5 | 487 | 2 150 | 424 | 795 | 1 797 | 13 230 | 3 376 | 16 100 | 1 817 | 458 | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 107 | 4 | 409 | 1 924 | 355 | 689 | 1 588 | 12 502 | 3 189 | 15 205 | 1 723 | 342 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 75 | 1 | 194 | 873 | 166 | 301 | 701 | 9 863 | 2 059 | 11 387 | 1 120 | 180 | (NA) |
| | OIL AND GAS FIELD SERVICES | 32 | 3 | 215 | 1 051 | 189 | 388 | 887 | 2 639 | 1 130 | 3 818 | 603 | 162 | (NA) |
| | HOPKINS COUNTY, TOTAL. | 97 | 21 | 2 781 | 14 935 | 2 452 | 4 228 | 12 916 | 33 809 | 13 062 | 46 926 | 2 258 | 3 409 | (NA) |
| 12 1211 | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | BITUMINOUS COAL. | 41 | 19 | 2 487 | 13 760 | 2 250 | 3 923 | 12 222 | 31 332 | 9 567 | 40 857 | 1 130 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 53 | 2 | 201 | 717 | 182 | 269 | 641 | 2 296 | 3 411 | 5 817 | 1 100 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 30 | - | 63 | 263 | 54 | 101 | 241 | 1 438 | 2 839 | 4 458 | 962 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 23 | 2 | 138 | 454 | 128 | 168 | 400 | 858 | 572 | 1 359 | 138 | (NA) | (NA) |
| | JACKSON COUNTY, TOTAL. | 4 | 1 | 21 | 74 | 19 | 48 | 66 | 449 | 154 | 573 | 35 | 132 | 694 |
| | JEFFERSON COUNTY, TOTAL. | 19 | 5 | 346 | 1 893 | 246 | 577 | 1 187 | 3 919 | 1 900 | 5 624 | 436 | (NA) | (NA) |
| 14 142 144 | NONMETALLIC MINERALS MINING. | 12 | 5 | 320 | 1 664 | 242 | 570 | 1 167 | 3 682 | 1 786 | 5 334 | 365 | 341 | 3 033 |
| | CRUSHED AND BROKEN STONE | 5 | 2 | 130 | 639 | 107 | 202 | 482 | 1 689 | 448 | 2 154 | 65 | 146 | 1 482 |
| | SAND AND GRAVEL. | 7 | 3 | 190 | 1 025 | 135 | 368 | 685 | 1 993 | 1 338 | 3 180 | 300 | 185 | 1 551 |
| | JOHNSON COUNTY, TOTAL. | 65 | 5 | 316 | 1 038 | 278 | 452 | 911 | 2 638 | 1 272 | 3 703 | 392 | 336 | (NA) |
| 12 1211 | BITUMINOUS COAL MINING | 37 | 2 | 174 | 466 | 145 | 194 | 409 | 995 | 473 | 1 424 | 49 | 256 | 1 112 |
| | BITUMINOUS COAL. | 37 | 2 | 174 | 466 | 145 | 194 | 409 | 995 | 473 | 1 424 | 49 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 28 | 3 | 139 | 548 | 133 | 258 | 502 | 1 643 | 799 | 2 279 | 343 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 14 | 2 | 67 | 309 | 66 | 125 | 294 | 1 055 | 494 | 1 384 | 312 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 14 | 1 | 72 | 239 | 67 | 133 | 208 | 588 | 305 | 895 | 31 | (NA) | (NA) |
| | KNOTT COUNTY, TOTAL. | 60 | 8 | 528 | 1 861 | 479 | 799 | 1 658 | 4 799 | 1 335 | 6 003 | 355 | 546 | (NA) |
| 12 1211 | BITUMINOUS COAL MINING | 42 | 6 | 394 | 1 222 | 361 | 574 | 1 126 | 2 573 | 774 | 3 284 | 213 | 437 | 1 837 |
| | BITUMINOUS COAL. | 42 | 6 | 394 | 1 222 | 361 | 574 | 1 126 | 2 573 | 774 | 3 284 | 213 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 18 | 2 | 134 | 639 | 118 | 225 | 532 | 2 226 | 561 | 2 719 | 142 | 109 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 13 | 2 | 118 | 594 | 104 | 198 | 491 | 2 102 | 508 | 2 553 | 124 | 89 | (NA) |
| | KNOX COUNTY, TOTAL | 9 | 2 | 83 | 350 | 74 | 136 | 309 | 854 | 750 | 1 518 | 139 | 140 | (NA) |
| | LAUREL COUNTY, TOTAL | 14 | 2 | 107 | 301 | 100 | 177 | 289 | 928 | 256 | 1 201 | 259 | 115 | (NA) |
| 12 1211 | BITUMINOUS COAL MINING | 9 | 2 | 79 | 266 | 76 | 118 | 261 | 842 | 194 | 1 087 | 119 | 115 | 537 |
| | BITUMINOUS COAL. | 9 | 2 | 79 | 266 | 76 | 118 | 261 | 842 | 194 | 1 087 | 119 | (NA) | (NA) |
| | LAWRENCE COUNTY, TOTAL | 31 | 5 | 218 | 894 | 200 | 359 | 758 | 1 128 | 384 | 1 364 | 273 | 157 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 27 | 5 | 210 | 842 | 193 | 345 | 712 | 1 035 | 330 | 1 227 | 255 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 16 | 2 | 110 | 537 | 93 | 175 | 414 | 691 | 249 | 805 | 213 | (NA) | (NA) |
| | LEE COUNTY, TOTAL. | 32 | 5 | 218 | 874 | 185 | 350 | 731 | 5 040 | 1 234 | 5 833 | 806 | 275 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 27 | 2 | 118 | 523 | 96 | 181 | 430 | 4 245 | 967 | 4 762 | 746 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 19 | 2 | 101 | 476 | 79 | 148 | 383 | 4 136 | 923 | 4 611 | 728 | 170 | (NA) |
| | LESLIE COUNTY, TOTAL | 16 | 8 | 774 | 2 356 | 764 | 1 325 | 2 325 | 4 680 | 1 879 | 6 396 | 238 | 1 358 | (NA) |
| | LETCHER COUNTY, TOTAL. | 125 | 25 | 2 017 | 10 372 | 1 764 | 3 081 | 8 616 | 14 369 | 12 779 | 32 349 | 3 625 | 2 323 | (NA) |
| 12 1211 | BITUMINOUS COAL MINING | 115 | 23 | 1 892 | 9 774 | 1 665 | 2 875 | 8 168 | 13 185 | 12 522 | 31 135 | 3 393 | 2 311 | 19 817 |
| | BITUMINOUS COAL. | 115 | 23 | 1 892 | 9 774 | 1 665 | 2 875 | 8 168 | 13 185 | 12 522 | 31 135 | 3 393 | (NA) | (NA) |
| | MCCREARY COUNTY, TOTAL | 7 | 2 | 203 | 905 | 168 | 338 | 725 | 1 594 | 587 | 1 637 | 545 | 258 | (NA) |
| | MCLEAN COUNTY, TOTAL | 56 | - | 110 | 402 | 93 | 188 | 335 | 2 251 | 840 | 2 679 | 507 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 39 | - | 72 | 271 | 58 | 109 | 216 | 1 814 | 631 | 2 158 | 364 | 116 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | MAGOFFIN COUNTY, TOTAL | 21 | 5 | 183 | 813 | 175 | 313 | 786 | 2 905 | 748 | 3 261 | 582 | 200 | (NA) |
| 12 | BITUMINOUS COAL MINING | 4 | 2 | 59 | 242 | 58 | 92 | 232 | 480 | 140 | 598 | 22 | (NA) | (NA) |
| 1211 | BITUMINOUS COAL | 4 | 2 | 59 | 242 | 58 | 92 | 232 | 480 | 140 | 598 | 22 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 17 | 3 | 124 | 571 | 117 | 221 | 554 | 2 425 | 608 | 2 663 | 560 | 173 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | 3 | 112 | 530 | 105 | 201 | 516 | 2 348 | 567 | 2 550 | 553 | 158 | (NA) |
| | MARTIN COUNTY, TOTAL | 24 | 2 | 175 | 736 | 140 | 232 | 562 | 1 278 | 316 | 1 620 | 51 | 228 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 19 | 1 | 109 | 527 | 88 | 160 | 390 | 929 | 165 | 1 141 | 18 | 185 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 16 | 1 | 103 | 501 | 82 | 148 | 364 | 874 | 140 | 1 067 | 12 | 109 | (NA) |
| | METCALFE COUNTY, TOTAL | 30 | - | 37 | 118 | 28 | 60 | 97 | 662 | 189 | 745 | 135 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 15 | - | 9 | 32 | 5 | 9 | 30 | 449 | 147 | 505 | 113 | (NA) | (NA) |
| | MORGAN COUNTY, TOTAL | 12 | 3 | 133 | 468 | 123 | 277 | 423 | 1 110 | 695 | 1 679 | 169 | 54 | 303 |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 3 | 117 | 424 | 108 | 254 | 383 | 983 | 648 | 1 514 | 155 | (NA) | (NA) |
| | MUHLBERG COUNTY, TOTAL | 100 | 16 | 1 686 | 11 301 | 1 533 | 3 236 | 10 204 | 45 222 | 11 848 | 58 105 | 3 272 | 1 863 | (NA) |
| 12 | BITUMINOUS COAL MINING | 26 | 15 | 1 499 | 10 557 | 1 370 | 2 906 | 9 573 | 42 063 | 10 879 | 54 617 | 2 143 | 1 690 | 24 837 |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 44 | - | 58 | 217 | 48 | 92 | 178 | 1 126 | 729 | 1 501 | 713 | 80 | (NA) |
| | OHIO COUNTY, TOTAL | 87 | 5 | 510 | 2 972 | 431 | 884 | 2 588 | 10 403 | 2 699 | 13 589 | 11 577 | 513 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 75 | - | 132 | 462 | 111 | 207 | 388 | 1 529 | 1 042 | 2 392 | 241 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 49 | - | 98 | 378 | 80 | 146 | 306 | 1 338 | 933 | 2 115 | 211 | 156 | (NA) |
| | PERRY COUNTY, TOTAL. | 81 | 20 | 1 470 | 6 599 | 1 403 | 2 206 | 6 286 | 12 719 | 9 266 | 20 358 | 2 623 | 2 923 | (NA) |
| 12 | BITUMINOUS COAL MINING | 78 | 19 | 1 399 | 6 225 | 1 345 | 2 101 | 6 009 | 11 564 | 8 958 | 20 139 | 1 349 | 2 920 | 18 589 |
| | PIKE COUNTY, TOTAL | 338 | 34 | 3 279 | 15 047 | 3 001 | 5 074 | 13 800 | 35 910 | 18 160 | 50 645 | 7 063 | 4 348 | (NA) |
| 12 | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 1211 | BITUMINOUS COAL | 303 | 31 | 3 024 | 13 925 | 2 791 | 4 680 | 12 951 | 28 613 | 16 485 | 43 867 | 4 438 | 3 961 | 25 527 |
| 13 | OIL AND GAS EXTRACTION | 31 | 3 | 238 | 1 057 | 196 | 364 | 804 | 7 005 | 1 614 | 6 497 | 2 553 | 333 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 15 | 3 | 161 | 791 | 122 | 233 | 559 | 6 416 | 1 422 | 5 776 | 2 484 | 194 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | - | 77 | 266 | 74 | 131 | 245 | 589 | 192 | 721 | 69 | 139 | (NA) |
| | POWELL COUNTY, TOTAL | 18 | 4 | 130 | 553 | 117 | 234 | 501 | 2 089 | 307 | 2 145 | 410 | 34 | (NA) |
| | PULASKI COUNTY, TOTAL. | 10 | 2 | 71 | 266 | 58 | 111 | 202 | 215 | 709 | 1 029 | 101 | 116 | 822 |
| | UNION COUNTY, TOTAL. | 46 | 6 | 853 | 5 098 | 765 | 1 384 | 4 406 | 13 430 | 4 463 | 17 527 | 1 203 | 831 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 39 | 3 | 152 | 733 | 134 | 246 | 623 | 3 872 | 1 391 | 4 906 | 629 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 27 | 2 | 94 | 524 | 83 | 152 | 456 | 3 510 | 1 240 | 4 402 | 571 | 105 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 12 | 1 | 58 | 209 | 51 | 94 | 167 | 362 | 151 | 504 | 58 | (NA) | (NA) |
| | WARREN COUNTY, TOTAL | 16 | - | 69 | 223 | 47 | 85 | 152 | 798 | 233 | 1 000 | 123 | 75 | (NA) |
| | WEBSTER COUNTY, TOTAL. | 49 | 3 | 148 | 544 | 130 | 231 | 443 | 3 545 | 1 042 | 4 283 | 639 | 315 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 31 | 1 | 71 | 290 | 60 | 113 | 228 | 3 095 | 841 | 3 721 | 500 | 122 | (NA) |
| | WOLFE COUNTY, TOTAL. | 10 | 1 | 47 | 178 | 43 | 77 | 177 | 659 | 171 | 568 | 270 | 23 | (NA) |
| | UNDISTRIBUTED, TOTAL | 66 | 1 | 207 | 701 | 181 | 358 | 615 | 2 046 | 931 | 2 784 | 347 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 66 | 1 | 207 | 701 | 181 | 358 | 615 | 2 046 | 931 | 2 784 | 347 | 686 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | 1 | 113 | 378 | 91 | 170 | 306 | 1 332 | 519 | 1 669 | 280 | 507 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 36 | - | 94 | 323 | 90 | 188 | 309 | 714 | 412 | 1 115 | 67 | 179 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headline for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| CLINTON COUNTY, TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CRITTENDEN COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | 5 | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - | - | - |
| CUMBERLAND COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| DAVISS COUNTY, TOTAL | 130 | 128 | 2 | - | - | - | - | - | - | - | - | - | - | 6 | - | 83 | - | 37 | - | - | - | - | 2 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 127 | 125 | 2 | - | - | - | - | - | - | - | - | - | - | 5 | - | 82 | - | 37 | - | - | - | - | 1 | 1 | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| EDMONSON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - |
| ELLIOTT COUNTY, TOTAL | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 20 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 20 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ESTILL COUNTY, TOTAL | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 12 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| FAYETTE COUNTY, TOTAL | 13 | 12 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 7 | - | - | 1 | - | 2 | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 7 | - | - | 1 | - | 2 | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| FLEMING COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| FLOYD COUNTY, TOTAL | 182 | 182 | - | - | - | - | - | - | - | - | - | - | - | 155 | - | 15 | 1 | 10 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 159 | 159 | - | - | - | - | - | - | - | - | - | - | - | 135 | - | 13 | - | 10 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FRANKLIN COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| FULTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| GALLATIN COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - |
| GARRARD COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| GRANT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| GRAVES COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - |
| GRAYSON COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| GREEN COUNTY, TOTAL | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | 1 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GREENUP COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HANCOCK COUNTY, TOTAL | 25 | 23 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 7 | - | - | - | - | - | - | - | 2 | - | 1 | - | - |
| 0-19 EMPLOYEES | 25 | 23 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 7 | - | - | - | - | - | - | - | 2 | - | 1 | - | - |
| HARDIN COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| HARLAN COUNTY, TOTAL | 111 | 111 | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)-- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| JACKSON COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY, TOTAL | 24 | 19 | 5 | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | 1 | - | - | 5 | 2 | 7 | 1 | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 14 | 4 | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | 1 | - | - | 3 | 1 | 4 | 1 | - | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 3 | - | - | - | - | - | - | - |
| JESSAMINE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| JOHNSON COUNTY, TOTAL | 65 | 65 | - | - | - | - | - | - | - | - | - | - | - | 37 | - | 14 | - | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 60 | 60 | - | - | - | - | - | - | - | - | - | - | - | 35 | - | 12 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| KENTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| KNOTT COUNTY, TOTAL | 60 | 60 | - | - | - | - | - | - | - | - | - | - | - | 42 | - | 13 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | 36 | - | 11 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| KNOX COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LAUREL COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 1 | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 1 | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LAWRENCE COUNTY, TOTAL | 31 | 31 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 16 | 1 | 10 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 14 | 1 | 7 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| LEE COUNTY, TOTAL | 32 | 32 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 19 | - | 8 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 17 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| LESLIE COUNTY, TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LETCHER COUNTY, TOTAL | 125 | 125 | - | - | - | - | - | - | - | - | - | - | - | 115 | 1 | 3 | - | 4 | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | 92 | 1 | 2 | - | 4 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | 18 | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LINCOLN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| LIVINGSTON COUNTY, TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | 1 | 1 | - | - | 4 | - | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 3 | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| LOGAN COUNTY, TOTAL | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | 1 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| MCCRACKEN COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| MCCRERY COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MCLEAN COUNTY, TOTAL | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 39 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 39 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| MADISON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| MENIFEE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| MERCER COUNTY, TOTAL | 2 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 2 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| METCALFE COUNTY, TOTAL | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 14 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 14 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| MONROE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| MONTGOMERY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| MORGAN COUNTY, TOTAL | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | 3 | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | 3 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| MUHLBERG COUNTY, TOTAL | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | 24 | 2 | 44 | - | 25 | - | - | 2 | - | 2 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 84 | 84 | - | - | - | - | - | - | - | - | - | - | - | 9 | 2 | 44 | - | 25 | - | - | 1 | - | 2 | - | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES. | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NELSON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| OHIO COUNTY, TOTAL | 87 | 87 | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 49 | - | 26 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 82 | 82 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 49 | - | 26 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OLDHAM COUNTY, TOTAL | 5 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| OWEN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| OWSLEY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PENDLETON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| PERRY COUNTY, TOTAL | 81 | 81 | - | - | - | - | - | - | - | - | - | - | - | 76 | 2 | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 61 | 61 | - | - | - | - | - | - | - | - | - | - | - | 57 | 2 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PIKE COUNTY, TOTAL | 339 | 338 | 1 | - | - | - | - | - | - | - | - | - | - | 303 | 1 | 15 | - | 16 | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 305 | 304 | 1 | - | - | - | - | - | - | - | - | - | - | 272 | 1 | 12 | - | 16 | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | 27 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| POWELL COUNTY, TOTAL | 19 | 18 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 6 | - | - | 2 | - | - | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 14 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 6 | - | - | - | - | - | - | 1 | 1 | - | - | - | - |
| 20-99 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| PULASKI COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ROCKCASTLE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ROWAN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| UNION COUNTY, TOTAL | 47 | 46 | 1 | - | - | - | - | - | - | 1 | - | - | - | 4 | 1 | 27 | - | 12 | - | - | - | - | 1 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 41 | 40 | 1 | - | - | - | - | - | - | 1 | - | - | - | 1 | 1 | 25 | - | 11 | - | - | - | - | 1 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WARREN COUNTY, TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 3 | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 3 | - | - | 4 | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| WAYNE COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | - | 5 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WEBSTER COUNTY, TOTAL | 49 | 49 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 31 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 46 | 46 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 30 | - | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| WHITLEY COUNTY, TOTAL | 38 | 37 | 1 | - | - | - | - | - | - | - | - | - | - | 33 | - | 2 | - | 1 | 1 | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 37 | 36 | 1 | - | - | - | - | - | - | - | - | - | - | 32 | - | 2 | - | 1 | 1 | - | - | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WOLFE COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 66 | 66 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 36 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 65 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | 29 | - | 36 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.

n.e.c. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

LOUISIANA

EMPLOYMENT - 4

VALUE OF SHIPMENT - 2

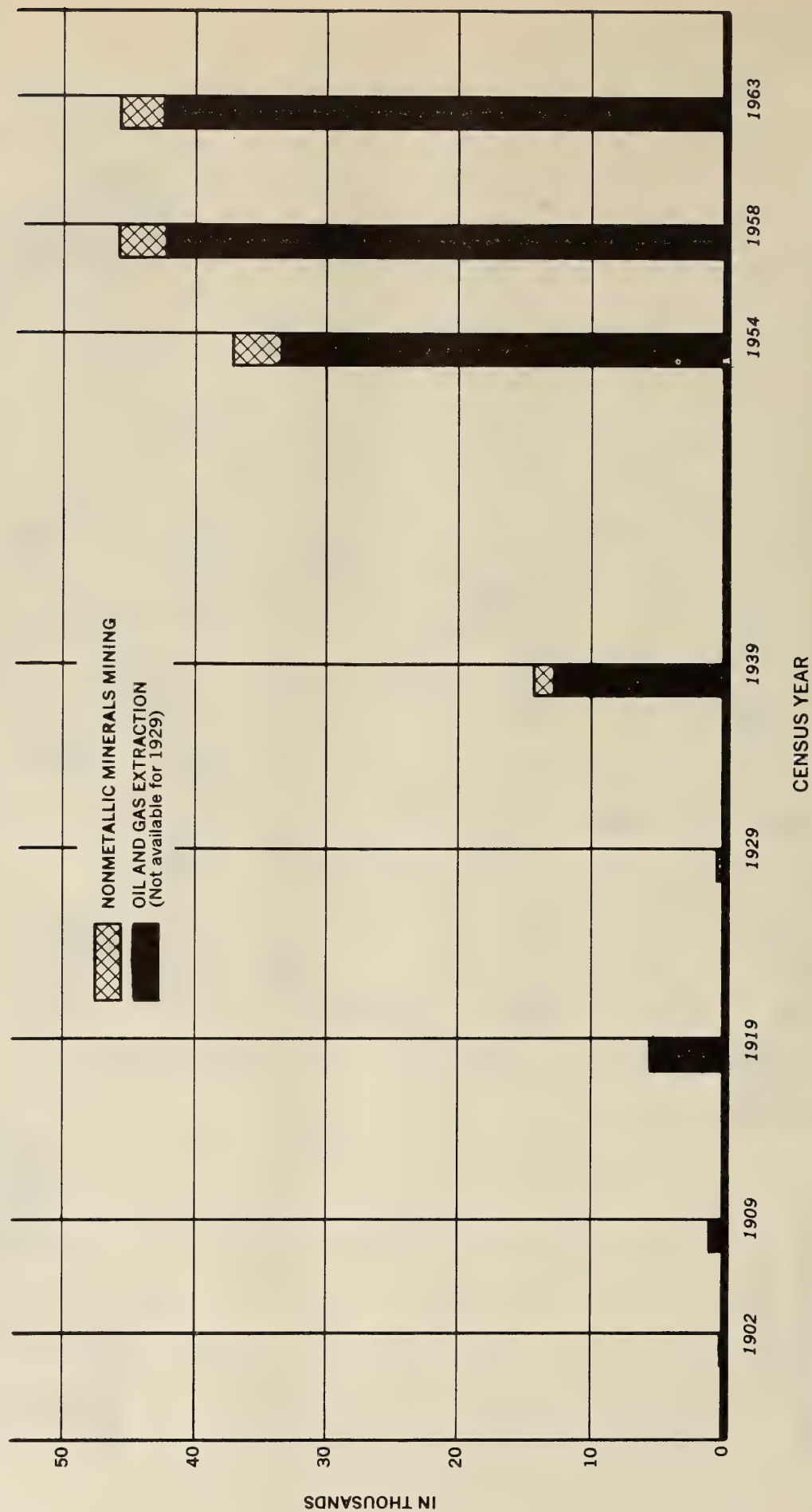


BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

LOUISIANA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|--|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|-----------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | ¹ 454 | ¹ 553 | 45 715 | 313 091 | 34 897 | 76 717 | 215 396 | 2 639 988 |
| 1958. | 1 121 | 344 | 46 136 | 264 929 | 33 268 | 75 422 | 174 570 | 1 527 697 |
| 1954. | 895 | 284 | 37 108 | 179 251 | 29 474 | 65 780 | 132 617 | 984 473 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | ¹ 473 | ¹ 553 | 45 750 | 313 263 | 34 932 | 76 790 | 215 568 | 2 640 534 |
| 1958. | 1 132 | 344 | 46 161 | 265 027 | 33 293 | 75 470 | 174 668 | 1 528 053 |
| 1954 ² | 911 | 286 | 37 209 | 179 489 | 29 575 | 65 982 | 132 855 | 984 976 |
| 1939. | ³ 573 | (NA) | 14 475 | 24 375 | 12 244 | 22 496 | 18 351 | 92 879 |
| 1919 ⁴ | 139 | (NA) | 5 661 | 8 548 | 4 873 | (NA) | 7 083 | 19 988 |
| 1909 ⁵ | 33 | (NA) | 1 089 | 1 200 | 951 | (NA) | 873 | 4 892 |
| 1902. | ³ 3 | (NA) | 82 | 52 | 670 | (NA) | 43 | 85 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | 121 | 35 | 3 344 | 18 537 | 2 565 | 5 571 | 13 005 | 83 367 |
| 1958. | 106 | 38 | 3 763 | 18 535 | 2 753 | 6 154 | 12 032 | 69 926 |
| 1954 ² | 88 | 36 | 3 797 | 14 832 | 3 037 | 6 760 | 10 978 | 62 199 |
| 1939. | ³ 40 | (NA) | 1 665 | 2 133 | 1 378 | 2 800 | 1 327 | 9 550 |
| 1929 ⁷ | 17 | (NA) | 511 | 663 | 439 | (NA) | 442 | 1 358 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ¹¹ | Capital expenditures ¹⁰ | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
|--|--|--|----------------------------|---|---|------------------------------------|-------------------------------|-----------------------|--------------------------------------|
| | Supplies, purchases for resale, and purchased fuels and electric energy ⁸ | Minerals received for preparation ⁹ | Contract work ⁸ | Purchased machinery installed ¹⁰ | | | Total ¹⁰ | Per production worker | |
| | | | | | | | | | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | ¹² 465 541 | ¹² 456 017 | 418 538 | 173 412 | 3 416 809 | 736 687 | 61 826 | 1 800 | 4 115 |
| 1958. | 338 691 | 112 644 | 349 184 | 144 851 | 1 902 976 | 570 091 | 47 946 | 1 441 | (NA) |
| 1954. | ¹² 230 919 | (¹²) | 260 574 | 150 157 | 1 194 947 | 431 176 | 43 447 | 1 474 | 2 354 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ¹² 465 820 | ¹² 456 017 | 418 538 | 173 412 | 3 417 634 | 736 687 | 61 826 | 1 800 | 4 115 |
| 1958. | 338 885 | 112 644 | 349 184 | 144 851 | 1 903 526 | 570 091 | 47 946 | 1 440 | (NA) |
| 1954 ² | ¹² 231 042 | (¹²) | 260 574 | 150 157 | 1 195 573 | 431 176 | 43 447 | 1 469 | 2 354 |
| 1939. | 14 288 | (NA) | 26 661 | (NA) | 133 828 | (NA) | 16 448 | 1 343 | 340 |
| 1919 ⁴ | 9 196 | ¹³ 741 | 2 091 | (NA) | 32 016 | (NA) | ¹⁴ 5 321 | ¹⁴ 940 | 79 |
| 1909 ⁵ | 1 586 | ¹³ 7 | 62 | (NA) | 6 547 | (NA) | (NA) | (NA) | 8 |
| 1902. | 23 | (NA) | 171 | (NA) | 279 | (NA) | (NA) | (NA) | 4 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ¹² 20 192 | (¹²) | 801 | 4 524 | 102 450 | 6 434 | 5 107 | 2 019 | 225 |
| 1958. | 15 841 | 42 | 6 471 | 9 307 | 82 754 | 18 833 | 5 346 | 2 001 | (NA) |
| 1954 ² | 15 273 | - | 978 | 2 096 | 75 777 | 4 769 | 3 880 | 1 358 | 132 |
| 1939. | 1 497 | (NA) | 9 | (NA) | 11 056 | (NA) | 1 032 | 749 | 40 |
| 1929 ⁷ | 672 | (NA) | 1 | 128 | 2 031 | (NA) | 127 | 289 | 14 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Figures for number of establishments in 1963 are not entirely comparable with those for earlier years. For 1963, operators of oil and gas field properties were asked to make separate reports by districts for North and South Louisiana, whereas only one report was required for the State in previous years.

²Excludes data for any sand and gravel mining operations in manufacturing establishments and, except for number of establishments, excludes data for 2 crushed and broken stone quarries in manufacturing establishments.

³Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for 1 limestone establishment and 1 sulfur establishment.

⁵Excludes data for 2 nonproducing establishments.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes data for 1 limestone establishment.

⁸For sand and gravel and clay mining operations in manufacturing establishments, in 1958 and 1954 the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.

⁹For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants, but for 1954 includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹⁰For 1963, 1958, and 1954, excludes data for sand and gravel and clay mining operations in manufacturing establishments.

¹¹For sand and gravel and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹²Cost of minerals received for preparation in the Nonmetallic Minerals Mining Industries for 1963, and for all industries for 1954, are included with cost of supplies, etc.

¹³Includes data for gas purchased for resale.

¹⁴Excludes purchased electric energy. For 1939, the quantity of purchased electric energy amounted to only 2 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 473 | 353 | 45 750 | 313 263 | 34 932 | 76 790 | 215 568 |
| | MINERAL INDUSTRIES | 1 454 | 353 | 45 715 | 313 091 | 34 897 | 76 717 | 215 396 |
| | INCLUDED IN MANUFACTURES | 19 | - | ¹ 35 | ¹ 172 | ¹ 35 | 73 | 172 |
| 13 | OIL AND GAS EXTRACTION | 1 352 | 318 | 42 406 | 294 726 | 32 367 | 71 219 | 202 563 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 743 | 82 | 17 061 | 131 823 | 10 603 | 22 207 | 72 978 |
| | CRUDE PETROLEUM. | 612 | 58 | 14 283 | 112 175 | 8 478 | 17 779 | 58 447 |
| | NATURAL GAS. | 131 | 24 | 2 778 | 19 648 | 2 125 | 4 428 | 14 531 |
| 1321 | NATURAL GAS LIQUIDS. | 72 | 25 | 1 472 | 10 085 | 1 221 | 2 595 | 7 988 |
| 138 | OIL AND GAS FIELD SERVICES. | 537 | 211 | 23 873 | 152 818 | 20 543 | 46 417 | 121 597 |
| 1381 | DRILLING OIL AND GAS WELLS | 231 | 125 | 11 757 | 77 436 | 10 770 | 25 199 | 68 235 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 35 | 13 | 1 610 | 9 349 | 1 405 | 3 063 | 7 494 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . | 271 | 73 | 10 506 | 66 033 | 8 368 | 18 155 | 45 868 |
| 14 | NONMETALLIC MINERALS MINING. | 121 | 35 | 3 344 | 18 537 | 2 565 | 5 571 | 13 005 |
| | MINERAL INDUSTRIES | 102 | 35 | 3 309 | 18 365 | 2 530 | 5 498 | 12 833 |
| | INCLUDED IN MANUFACTURES | 19 | - | ² 35 | ² 172 | ² 35 | 73 | 172 |
| 1441 | SAND AND GRAVEL. | 97 | 23 | 1 212 | 4 572 | 993 | 2 260 | 3 868 |
| | MINERAL INDUSTRY | 87 | 23 | 1 205 | 4 545 | 986 | 2 246 | 3 841 |
| | CLAY AND RELATED MINERALS. | 11 | 1 | ¹ 85 | ¹ 561 | ¹ 74 | 157 | 438 |
| 147 | CHEMICAL AND FERTILIZER MINERALS . . | 10 | 10 | 1 954 | 13 062 | 1 414 | 2 969 | 8 389 |

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 640 534 | ² 1 513 787 | ¹ 3 417 634 | (NA) | 46 161 | 1 528 053 |
| | MINERAL INDUSTRIES | 2 639 988 | 1 513 508 | 3 416 809 | 736 687 | 46 ¹ 36 | 1 527 697 |
| | INCLUDED IN MANUFACTURES | 546 | ² 279 | ¹ 825 | (NA) | ¹ 25 | 356 |
| 13 | OIL AND GAS EXTRACTION | 2 557 167 | 1 488 270 | 3 315 184 | 730 253 | 42 398 | 1 458 127 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 2 107 158 | 758 866 | 2 236 901 | 629 123 | 20 532 | 1 181 307 |
| | CRUDE PETROLEUM. | 1 719 301 | 626 958 | 1 822 778 | 523 481 | 18 044 | 1 042 579 |
| | NATURAL GAS. | 387 857 | 131 908 | 414 123 | 105 642 | 2 488 | 138 728 |
| 1321 | NATURAL GAS LIQUIDS. | 154 851 | 496 919 | 636 722 | 15 048 | 1 208 | 56 550 |
| 138 | OIL AND GAS FIELD SERVICES. | 295 158 | 232 485 | 441 561 | 86 082 | 20 658 | 220 270 |
| 1381 | DRILLING OIL AND GAS WELLS | 173 491 | 147 615 | 253 222 | 67 884 | 11 006 | 151 547 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 17 085 | 6 297 | 21 644 | 1 738 | 3 396 | 18 973 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . | 104 582 | 78 573 | 166 695 | 16 460 | 6 256 | 49 750 |
| 14 | NONMETALLIC MINERALS MINING. | 83 367 | ² 25 517 | ¹ 102 450 | (NA) | 3 763 | 69 926 |
| | MINERAL INDUSTRIES | 82 821 | 25 238 | 101 625 | 6 434 | 3 738 | 69 570 |
| | INCLUDED IN MANUFACTURES | 546 | ² 279 | ¹ 825 | (NA) | ¹ 25 | 356 |
| 1441 | SAND AND GRAVEL. | 12 368 | 7 898 | 18 204 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 12 214 | 7 881 | 18 033 | 2 062 | 1 223 | 11 684 |
| | CLAY AND RELATED MINERALS. | 931 | ² 619 | ¹ 1 512 | (NA) | ¹ 92 | 840 |
| 147 | CHEMICAL AND FERTILIZER MINERALS . . | 69 512 | 16 168 | 81 454 | 4 226 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|-------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|----------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. | 1 513 508 | ³ 921 558 | (³) | 418 538 | 173 412 | 736 687 | 418 257 | 318 430 | (x) | (x) | (x) | (x) |
| 13 | OIL AND GAS EXTRACTION. . . . | 1 488 270 | 445 628 | 456 017 | 417 737 | 168 888 | 730 253 | 417 686 | 312 567 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND | | | | | | | | | | | | |
| | NATURAL GAS. | 758 866 | 291 699 | - | 375 419 | 91 748 | 629 123 | 415 509 | 213 614 | (x) | 2 232 941 | (x) | 5 910 |
| | CRUDE PETROLEUM | 626 958 | 240 623 | - | 311 528 | 74 807 | 523 481 | 352 207 | 171 274 | ⁴ 467 090 | 1 434 879 | ⁴ 36 410 | 111 841 |
| | NATURAL GAS | 131 908 | 51 076 | - | 63 891 | 16 941 | 105 642 | 63 302 | 42 340 | ⁵ 1 665 311 | 306 286 | ⁵ 2 030 126 | 385 845 |
| 1321 | NATURAL GAS LIQUIDS | 496 919 | 24 658 | 456 017 | 11 416 | 4 828 | 15 048 | - | 15 048 | ⁶ 52 264 | ⁶ 119 548 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 232 485 | 129 271 | - | 30 902 | 72 312 | 86 082 | 2 177 | 83 905 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS | | | | | | | | | | | | |
| | WELLS. | 147 615 | 64 337 | - | 26 358 | 56 920 | 67 884 | 2 127 | 65 757 | (x) | ⁷ 246 403 | (x) | (⁷) |
| 1382 | OIL AND GAS FIELD EX- | | | | | | | | | | | | |
| | PLORATION SERVICES | 6 297 | 4 245 | - | 740 | 1 312 | 1 738 | - | 1 738 | (x) | 719 571 | (x) | (⁷) |
| 1389 | OIL AND GAS FIELD | | | | | | | | | | | | |
| | SERVICES, N.E.C. | 78 573 | 60 689 | - | 3 804 | 14 080 | 16 460 | 50 | 16 410 | (x) | 7165 558 | (x) | (⁷) |
| 14 | NONMETALLIC MINERALS MINING . | 25 238 | ³ 19 913 | (³) | 801 | 4 524 | 6 434 | 571 | 5 863 | (x) | (x) | (x) | (x) |
| 144 | SAND AND GRAVEL | 7 881 | ³ 6 010 | (³) | 456 | 1 415 | 2 062 | 30 | 2 032 | 14 360 | ⁸ 17 993 | 514 | (⁸) |
| 147 | CHEMICAL AND FERTILIZER | | | | | | | | | | | | |
| | MINERALS | 16 168 | ³ 12 938 | (³) | 338 | 2 892 | 4 226 | 540 | 3 686 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁵Represents millions of cubic feet of natural gas shipped.⁶Represents net shipments of natural gas liquids only. Quantity figures are in thousands of barrels.⁷Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁸Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Non-producing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|------------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 917 | 863 | 704 | - | 13 | 688 | 75 | 4 | 60 | 11 | 77 | 64 |
| | NUMBER OF EMPLOYEES..... | ¹ 19 411 | ¹ 19 321 | 15 808 | - | 85 | 15 723 | 2 031 | 577 | 1 013 | 441 | 1 482 | 90 |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 319 440 | 2 319 070 | 2 160 610 | - | 724 | 2 159 886 | 29 617 | 12 101 | 9 829 | 7 687 | 128 843 | 370 |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 815 | 752 | 681 | - | - | 681 | - | - | - | - | 71 | 63 |
| | NUMBER OF EMPLOYEES..... | 16 440 | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 236 619 | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 743 | 681 | 681 | - | - | 681 | - | - | - | - | - | 62 |
| | NUMBER OF EMPLOYEES..... | 15 046 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 109 504 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 72 | 71 | - | - | - | - | - | - | - | - | 71 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 394 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 127 115 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 102 | 101 | 20 | - | 13 | 7 | 75 | 4 | 60 | 11 | 6 | 1 |
| | NUMBER OF EMPLOYEES..... | 2 971 | (D) | (D) | - | 85 | (D) | 2 031 | 577 | 1 013 | 441 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 82 821 | (D) | (D) | - | 724 | (D) | 29 617 | 12 101 | 9 829 | 7 687 | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 87 | 86 | 14 | - | 11 | 3 | 67 | - | 57 | 10 | 5 | 1 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | (D) | 1 068 | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | (D) | 10 143 | - | (D) | (D) | (D) | (D) |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 10 | 10 | 4 | - | - | 4 | 5 | 4 | - | 1 | 1 | - |
| | NUMBER OF EMPLOYEES..... | 1 621 | 1 621 | (D) | - | - | (D) | (D) | 577 | - | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 69 512 | 69 512 | (D) | - | - | (D) | (D) | 12 101 | - | (D) | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 473 | 353 | 45 750 | 313 263 | 34 932 | 76 790 | 215 568 | 2 640 534 | 1 513 787 | 3 417 634 | (NA) | 46 161 | 1 528 053 |
| | MINERAL INDUSTRIES | 1 454 | 353 | 45 715 | 313 091 | 34 897 | 76 717 | 215 396 | 2 639 988 | 1 513 508 | 3 416 809 | 736 687 | 46 136 | 1 527 697 |
| | INCLUDED IN MANUFACTURES ² | 19 | - | 35 | 172 | 35 | 73 | 172 | 546 | 279 | 825 | (NA) | 25 | 356 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ACADIA PARISH, TOTAL | 152 | 10 | 820 | 5 049 | 735 | 1 592 | 4 394 | 69 905 | 176 058 | 238 553 | 7 410 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 152 | 10 | 820 | 5 049 | 735 | 1 592 | 4 394 | 69 905 | 176 058 | 238 553 | 7 410 | 1 002 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 75 | 1 | 245 | 1 625 | 207 | 383 | 1 318 | 48 873 | 14 742 | 57 313 | 6 302 | 436 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 6 | 4 | 145 | 1 066 | 132 | 297 | 967 | 16 751 | 158 673 | 175 091 | 333 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 71 | 5 | 430 | 2 358 | 396 | 912 | 2 109 | 4 281 | 2 643 | 6 149 | 775 | (NA) | (NA) |
| | ALLEN PARISH, TOTAL | 35 | 2 | 155 | 803 | 147 | 323 | 759 | 8 417 | 3 001 | 10 824 | 594 | 116 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 31 | 216 | 31 | 61 | 215 | 6 228 | 1 545 | 7 567 | 206 | 41 | (NA) |
| | ASCENSION PARISH, TOTAL | 32 | 2 | 211 | 1 173 | 164 | 304 | 863 | 4 759 | 7 632 | 9 828 | 2 563 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 32 | 2 | 211 | 1 173 | 164 | 304 | 863 | 4 759 | 7 632 | 9 828 | 2 563 | 174 | (NA) |
| | ASSUMPTION PARISH, TOTAL | 51 | 1 | 96 | 528 | 84 | 171 | 435 | 17 668 | 6 749 | 22 576 | 1 841 | 164 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 51 | 1 | 96 | 528 | 84 | 171 | 435 | 17 668 | 6 749 | 22 576 | 1 841 | 164 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 24 | - | 30 | 217 | 26 | 55 | 185 | 16 772 | 5 817 | 20 903 | 1 686 | 65 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 27 | 1 | 66 | 311 | 58 | 116 | 250 | 896 | 932 | 1 673 | 155 | 99 | (NA) |
| | AVOYELLES PARISH, TOTAL | 15 | 1 | 80 | 563 | 76 | 189 | 527 | 3 326 | 2 547 | 4 495 | 1 378 | 58 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 15 | 1 | 80 | 563 | 76 | 189 | 527 | 3 326 | 2 547 | 4 495 | 1 378 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 8 | - | 11 | 85 | 7 | 15 | 53 | 2 573 | 754 | 2 072 | 1 255 | 27 | (NA) |
| | BEAUREGARD PARISH, TOTAL | 68 | 1 | 329 | 2 101 | 140 | 271 | 810 | 8 779 | 5 504 | 12 992 | 1 291 | 320 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 65 | 1 | 325 | 2 092 | 138 | 267 | 801 | 8 689 | 5 471 | 12 879 | 1 281 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | 1 | 222 | 1 503 | 43 | 90 | 281 | 8 687 | 2 719 | 10 204 | 1 202 | 103 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 3 | - | 39 | 277 | 36 | 72 | 247 | (4) 2 263 | 1 563 | - | - | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 31 | - | 64 | 312 | 59 | 105 | 273 | 702 | 489 | 1 112 | 79 | 162 | (NA) |
| | BIENVILLE PARISH, TOTAL | 40 | - | 101 | 485 | 87 | 135 | 382 | 6 654 | 1 714 | 7 430 | 938 | 81 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 28 | - | 35 | 224 | 25 | 51 | 149 | 6 333 | 1 337 | 6 778 | 892 | 32 | (NA) |
| | BOSSIER PARISH, TOTAL | 83 | 7 | 415 | 2 704 | 353 | 834 | 2 106 | 30 846 | 31 888 | 58 521 | 4 213 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 646 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 48 | 2 | 134 | 838 | 112 | 257 | 564 | 23 199 | 6 274 | 25 911 | 3 562 | 239 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 4 | 2 | 71 | 450 | 63 | 125 | 395 | 4 317 | 23 535 | 27 641 | 211 | (NA) | (NA) |
| | CADDO PARISH, TOTAL | 306 | 32 | 2 254 | 11 916 | 1 691 | 3 390 | 8 188 | 51 758 | 25 179 | 61 101 | 15 836 | 3 359 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 210 | 15 | 1 228 | 7 127 | 753 | 1 571 | 3 966 | 40 659 | 19 162 | 45 818 | 14 003 | 2 558 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 89 | 16 | 969 | 4 464 | 888 | 1 687 | 3 932 | 10 249 | 5 274 | 13 699 | 1 824 | 701 | (NA) |
| | CALCASIEU PARISH, TOTAL | 133 | 16 | 1 197 | 7 268 | 1 003 | 2 176 | 5 538 | 27 886 | 24 393 | 43 876 | 8 403 | 1 665 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 133 | 16 | 1 197 | 7 268 | 1 003 | 2 176 | 5 538 | 27 886 | 24 393 | 43 876 | 8 403 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 63 | 5 | 390 | 2 756 | 294 | 547 | 1 852 | 18 689 | 9 453 | 21 616 | 6 526 | 939 | (NA) |
| | CALDWELL PARISH, TOTAL | 11 | - | 19 | 130 | 16 | 39 | 108 | 2 191 | 829 | 1 907 | 1 113 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 11 | - | 19 | 130 | 16 | 39 | 108 | 2 191 | 829 | 1 907 | 1 113 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 5 | - | 5 | 35 | 3 | 7 | 22 | 2 048 | 639 | 1 574 | 1 113 | (NA) | (NA) |
| | CAMERON PARISH, TOTAL | 130 | 15 | 1 047 | 6 771 | 920 | 2 069 | 5 733 | 108 383 | 82 986 | 162 576 | 28 793 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 918 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 57 | 3 | 307 | 2 285 | 262 | 573 | 1 904 | 95 959 | 37 113 | 105 857 | 27 215 | 366 | (NA) |
| | CATAHOULA PARISH, TOTAL | 63 | 1 | 158 | 785 | 141 | 267 | 697 | 7 058 | 3 313 | 9 145 | 1 226 | 167 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 60 | 1 | 135 | 649 | 123 | 231 | 569 | 6 724 | 3 139 | 8 707 | 1 156 | 123 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 33 | - | 22 | 135 | 16 | 33 | 100 | 4 351 | 1 885 | 5 257 | 979 | 14 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 27 | 1 | 113 | 514 | 107 | 198 | 469 | 2 373 | 1 254 | 3 450 | 177 | 109 | (NA) |
| | CLAIBORNE PARISH, TOTAL | 88 | 8 | 476 | 2 819 | 384 | 920 | 1 991 | 23 153 | 10 206 | 30 073 | 3 286 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 541 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 55 | 3 | 225 | 1 410 | 158 | 369 | 858 | 17 549 | 4 648 | 19 492 | 2 705 | 335 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | CONCORDIA PARISH, TOTAL | 65 | 3 | 287 | 1 742 | 251 | 516 | 1 416 | 11 257 | 4 364 | 14 062 | 1 559 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 65 | 3 | 287 | 1 742 | 251 | 516 | 1 416 | 11 257 | 4 364 | 14 062 | 1 559 | 199 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 39 | 2 | 134 | 961 | 108 | 232 | 741 | 9 895 | 3 595 | 12 053 | 1 437 | 111 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 26 | 1 | 153 | 781 | 143 | 284 | 675 | 1 362 | 769 | 2 009 | 122 | (NA) | (NA) |
| | DE SOTO PARISH, TOTAL | 59 | 4 | 174 | 992 | 147 | 328 | 778 | 8 774 | 2 673 | 10 381 | 1 066 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 59 | 4 | 174 | 992 | 147 | 328 | 778 | 8 774 | 2 673 | 10 381 | 1 066 | 230 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 44 | 3 | 116 | 729 | 94 | 207 | 561 | 8 254 | 2 327 | 9 629 | 952 | 111 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 15 | 1 | 58 | 263 | 53 | 121 | 217 | 520 | 346 | 752 | 114 | 119 | (NA) |
| | EAST BATON ROUGE PARISH, TOTAL | 27 | 3 | 205 | 857 | 146 | 316 | 671 | 4 346 | 1 550 | 5 422 | 474 | 309 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 19 | - | 67 | 467 | 55 | 128 | 354 | 3 324 | 911 | 3 889 | 346 | 246 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 10 | - | 30 | 218 | 23 | 46 | 143 | 2 480 | 628 | 2 886 | 222 | 135 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | - | 37 | 249 | 32 | 82 | 211 | 844 | 283 | 1 003 | 124 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 8 | 3 | 138 | 390 | 91 | 188 | 317 | 1 022 | 639 | 1 533 | 128 | 63 | 1 041 |
| 144 | SAND AND GRAVEL | 8 | 3 | 138 | 390 | 91 | 188 | 317 | 1 022 | 639 | 1 533 | 128 | (NA) | (NA) |
| | EAST FELICIANA PARISH, TOTAL | 7 | 2 | 48 | 177 | 40 | 102 | 154 | 513 | 271 | 736 | 48 | (NA) | (NA) |
| | EVANGELINE PARISH, TOTAL | 43 | 2 | 180 | 964 | 164 | 346 | 879 | 9 507 | 3 632 | 11 838 | 1 301 | 354 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 16 | 1 | 39 | 284 | 39 | 75 | 269 | 7 817 | 1 646 | 8 285 | 1 178 | 37 | (NA) |
| | FRANKLIN PARISH, TOTAL | 20 | - | 69 | 357 | 61 | 87 | 257 | 2 044 | 304 | 2 240 | 108 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 68 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 8 | - | 3 | 19 | 3 | 5 | 16 | 1 285 | 92 | 1 335 | 42 | 32 | (NA) |
| | GRANT PARISH, TOTAL | 9 | 1 | 46 | 180 | 43 | 97 | 158 | 580 | 501 | 762 | 319 | (NA) | (NA) |
| | IBERIA PARISH, TOTAL | 83 | 12 | 1 659 | 10 408 | 1 376 | 3 037 | 8 116 | 82 222 | 28 586 | 98 248 | 12 560 | 2 211 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 79 | 9 | 929 | 6 567 | 732 | 1 646 | 4 859 | 66 600 | 22 273 | 77 556 | 11 317 | 1 536 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 19 | 2 | 288 | 2 215 | 210 | 443 | 1 530 | 52 001 | 17 135 | 58 742 | 10 394 | 620 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 3 | 730 | 3 841 | 644 | 1 391 | 3 257 | 15 622 | 6 313 | 20 692 | 1 243 | 675 | 10 578 |
| | IBERVILLE PARISH, TOTAL | 61 | 5 | 298 | 1 888 | 250 | 623 | 1 506 | 27 900 | 8 970 | 29 195 | 7 675 | 433 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 61 | 5 | 298 | 1 888 | 250 | 623 | 1 506 | 27 900 | 8 970 | 29 195 | 7 675 | 433 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 27 | 2 | 118 | 864 | 81 | 174 | 569 | 25 331 | 7 236 | 25 228 | 7 339 | 218 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 34 | 3 | 180 | 1 024 | 169 | 449 | 937 | 2 569 | 1 734 | 3 967 | 336 | 215 | (NA) |
| | JACKSON PARISH, TOTAL | 16 | 1 | 44 | 287 | 39 | 87 | 235 | 2 203 | 1 063 | 1 535 | 1 731 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 16 | 1 | 44 | 287 | 39 | 87 | 235 | 2 203 | 1 063 | 1 535 | 1 731 | 1 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 6 | - | 8 | 62 | 8 | 15 | 55 | 1 582 | 554 | 550 | 1 586 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 10 | 1 | 36 | 225 | 31 | 72 | 180 | 621 | 509 | 985 | 145 | (NA) | (NA) |
| | JEFFERSON PARISH, TOTAL | 88 | 17 | 2 113 | 15 750 | 1 608 | 3 616 | 11 161 | 59 273 | 21 232 | 69 302 | 11 203 | 1 678 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 26 | 5 | 1 027 | 8 381 | 684 | 1 478 | 5 099 | 41 226 | 12 020 | 44 607 | 8 639 | 891 | (NA) |
| | JEFFERSON DAVIS PARISH, TOTAL | 91 | 4 | 517 | 3 167 | 478 | 1 077 | 2 870 | 50 078 | 32 326 | 75 524 | 6 880 | 734 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 37 | 1 | 173 | 1 279 | 161 | 342 | 1 173 | 41 308 | 10 409 | 46 598 | 5 119 | 308 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 5 | 1 | 48 | 368 | 43 | 88 | 324 | 5 775 | 19 694 | 24 597 | 872 | (NA) | (NA) |
| | LAFAYETTE PARISH, TOTAL | 124 | 26 | 1 990 | 13 783 | 1 266 | 2 678 | 7 745 | 24 206 | 8 504 | 28 305 | 4 405 | 1 418 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 43 | 15 | 1 174 | 9 445 | 558 | 1 177 | 4 184 | 17 038 | 3 414 | 17 173 | 3 279 | 937 | (NA) |
| | LAFOURCHE PARISH, TOTAL | 153 | 24 | 1 695 | 11 877 | 1 322 | 2 760 | 8 550 | 154 836 | 64 886 | 178 157 | 41 565 | 2 859 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 153 | 24 | 1 695 | 11 877 | 1 322 | 2 760 | 8 550 | 154 836 | 64 886 | 178 157 | 41 565 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 56 | 7 | 698 | 5 583 | 442 | 915 | 3 211 | 141 666 | 53 554 | 157 252 | 37 968 | 1 445 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 97 | 17 | 997 | 6 294 | 880 | 1 845 | 5 339 | 13 170 | 11 332 | 20 905 | 3 597 | (NA) | (NA) |
| | LA SALLE PARISH, TOTAL | 56 | 5 | 469 | 2 836 | 359 | 778 | 2 067 | 16 621 | 4 839 | 18 799 | 2 661 | 324 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 52 | 5 | 437 | 2 738 | 328 | 722 | 1 972 | 16 250 | 4 768 | 18 417 | 2 601 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 34 | 4 | 293 | 1 767 | 207 | 411 | 1 157 | 13 677 | 2 608 | 14 428 | 1 857 | 265 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 18 | 1 | 144 | 971 | 121 | 311 | 815 | 2 573 | 2 160 | 3 989 | 744 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 13 | LINCOLN PARISH, TOTAL | 46 | 2 | 249 | 1 449 | 207 | 450 | 1 108 | 12 859 | 20 738 | 30 469 | 3 128 | 267 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 46 | 2 | 249 | 1 449 | 207 | 450 | 1 108 | 12 859 | 20 738 | 30 469 | 3 128 | (NA) | (NA) |
| 132 | CRUDE PETROLEUM AND NATURAL GAS | 27 | 1 | 43 | 318 | 30 | 57 | 204 | 7 288 | 2 923 | 7 597 | 2 614 | 107 | (NA) |
| 138 | NATURAL GAS LIQUIDS | 3 | 1 | 154 | 839 | 130 | 277 | 640 | 4 446 | 16 419 | 20 550 | 315 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 16 | - | 52 | 292 | 47 | 116 | 264 | 1 125 | 1 396 | 2 322 | 199 | 57 | (NA) |
| | LIVINGSTON PARISH, TOTAL | 10 | - | 39 | 135 | 24 | 39 | 80 | 545 | 348 | 638 | 255 | 73 | (NA) |
| | MADISON PARISH, TOTAL | 5 | 1 | 32 | 160 | 12 | 8 | 64 | 684 | 193 | 658 | 219 | (NA) | (NA) |
| | MOREHOUSE PARISH, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 25 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 6 | - | 25 | 98 | 17 | 36 | 80 | 1 372 | 231 | 1 275 | 328 | (NA) | (NA) |
| | NATCHITOCHES PARISH, TOTAL | 13 | 1 | 49 | 264 | 42 | 84 | 232 | 801 | 494 | 972 | 323 | 5 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 13 | 1 | 49 | 264 | 42 | 84 | 232 | 801 | 494 | 972 | 323 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 6 | 1 | 47 | 251 | 41 | 82 | 225 | 382 | 279 | 575 | 86 | (NA) | (NA) |
| | ORLEANS PARISH, TOTAL | 74 | 20 | 2 166 | 16 650 | 713 | 1 501 | 4 509 | 11 694 | 3 806 | 13 961 | 1 539 | 2 907 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | OIL AND GAS FIELD SERVICES | 35 | 7 | 487 | 2 796 | 389 | 811 | 2 098 | 2 786 | 2 414 | 4 368 | 632 | 217 | (NA) |
| | OUACHITA PARISH, TOTAL | 59 | 7 | 347 | 1 524 | 277 | 591 | 1 138 | 12 283 | 7 178 | 16 191 | 3 270 | 387 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 238 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 32 | 2 | 108 | 586 | 69 | 133 | 332 | 9 258 | 3 199 | 9 542 | 2 915 | 219 | (NA) |
| | PLAQUEMINES PARISH, TOTAL | 127 | 30 | 3 239 | 24 094 | 2 514 | 5 674 | 17 397 | 269 129 | 106 800 | 314 037 | 61 892 | 4 267 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 35 | 9 | 1 418 | 11 195 | 930 | 1 967 | 6 639 | 221 253 | 85 198 | 248 375 | 58 076 | 1 932 | (NA) |
| | POINTE COUPEE PARISH, TOTAL | 21 | 2 | 134 | 929 | 115 | 241 | 729 | 5 711 | 3 804 | 8 918 | 597 | 93 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 46 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 11 | 1 | 43 | 308 | 30 | 59 | 186 | 4 749 | 1 469 | 5 662 | 556 | (NA) | (NA) |
| | RAPIDES PARISH, TOTAL | 33 | 3 | 159 | 658 | 133 | 336 | 583 | 2 261 | 1 491 | 3 106 | 646 | 154 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 27 | - | 52 | 225 | 48 | 96 | 187 | 1 107 | 696 | 1 370 | 433 | 46 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 13 | - | 8 | 31 | 7 | 9 | 23 | 702 | 428 | 732 | 398 | 9 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 14 | - | 44 | 194 | 41 | 87 | 164 | 405 | 268 | 638 | 35 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 6 | 3 | 107 | 433 | 85 | 240 | 396 | 1 154 | 795 | 1 736 | 213 | 108 | 912 |
| | RED RIVER PARISH, TOTAL | 22 | 1 | 69 | 227 | 36 | 82 | 133 | 632 | 302 | 824 | 110 | 103 | (NA) |
| | RICHLAND PARISH, TOTAL | 21 | 2 | 125 | 726 | 120 | 263 | 699 | 15 517 | 2 014 | 16 625 | 906 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | 2 | 125 | 726 | 120 | 263 | 699 | 15 517 | 2 014 | 16 625 | 906 | 171 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 13 | 1 | 58 | 371 | 55 | 111 | 352 | 14 497 | 804 | 14 758 | 543 | (NA) | (NA) |
| | SABINE PARISH, TOTAL | 108 | 7 | 546 | 2 353 | 480 | 979 | 2 011 | 12 347 | 8 877 | 14 960 | 6 264 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 108 | 7 | 546 | 2 353 | 480 | 979 | 2 011 | 12 347 | 8 877 | 14 960 | 6 264 | 119 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 67 | 1 | 163 | 638 | 128 | 243 | 493 | 8 136 | 6 554 | 9 583 | 5 107 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 41 | 6 | 383 | 1 715 | 352 | 736 | 1 518 | 4 211 | 2 323 | 5 377 | 1 157 | (NA) | (NA) |
| | ST BERNARD PARISH, TOTAL | 40 | 6 | 375 | 2 453 | 295 | 640 | 1 841 | 63 989 | 29 197 | 88 452 | 4 734 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 94 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 15 | 1 | 68 | 385 | 49 | 128 | 313 | 3 718 | 1 990 | 2 244 | 3 464 | (NA) | (NA) |
| 132 | NATURAL GAS LIQUIDS | 3 | 2 | 71 | 514 | 50 | 111 | 344 | 58 915 | 24 885 | 83 338 | 462 | (NA) | (NA) |
| | ST CHARLES PARISH, TOTAL | 45 | 3 | 304 | 2 038 | 249 | 526 | 1 589 | 44 717 | 30 250 | 63 564 | 11 403 | 346 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 45 | 3 | 304 | 2 038 | 249 | 526 | 1 589 | 44 717 | 30 250 | 63 564 | 11 403 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 30 | 1 | 135 | 812 | 117 | 254 | 699 | 1 865 | 878 | 2 460 | 283 | (NA) | (NA) |
| | ST JAMES PARISH, TOTAL | 21 | - | 60 | 409 | 50 | 113 | 335 | 4 930 | 2 193 | 5 492 | 1 631 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | - | 60 | 409 | 50 | 113 | 335 | 4 930 | 2 193 | 5 492 | 1 631 | 120 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 7 | - | 23 | 175 | 16 | 36 | 114 | 4 371 | 1 563 | 4 367 | 1 567 | 50 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 14 | - | 37 | 234 | 34 | 77 | 221 | 559 | 630 | 1 125 | 64 | (NA) | (NA) |
| | ST JOHN THE BAPTIST PARISH, TOTAL | 16 | - | 29 | 152 | 25 | 55 | 137 | 2 905 | 994 | 3 283 | 616 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 16 | - | 29 | 152 | 25 | 55 | 137 | 2 905 | 994 | 3 283 | 616 | 32 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 5 | - | 9 | 49 | 8 | 24 | 47 | 2 722 | 850 | 2 992 | 580 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| | ST LANDRY PARISH: TOTAL | 91 | 5 | 492 | 3 230 | 422 | 930 | 2 632 | 44 089 | 33 669 | 71 176 | 6 582 | 781 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 91 | 5 | 492 | 3 230 | 422 | 930 | 2 632 | 44 089 | 33 669 | 71 176 | 6 582 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 41 | 2 | 137 | 1 090 | 113 | 228 | 834 | 21 224 | 9 065 | 27 243 | 3 046 | 265 | (NA) |
| 132 | NATURAL GAS LIQUIDS. | 4 | 1 | 64 | 440 | 48 | 100 | 321 | 17 990 | 21 377 | 38 487 | 880 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 46 | 2 | 291 | 1 700 | 261 | 602 | 1 477 | 4 875 | 3 227 | 5 446 | 2 656 | 433 | (NA) |
| | ST MARTIN PARISH: TOTAL | 94 | 4 | 445 | 2 896 | 355 | 765 | 2 154 | 60 760 | 22 110 | 68 080 | 14 790 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 94 | 4 | 445 | 2 896 | 355 | 765 | 2 154 | 60 760 | 22 110 | 68 080 | 14 790 | 685 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 41 | 2 | 158 | 1 139 | 109 | 233 | 727 | 56 936 | 18 435 | 61 222 | 14 149 | 324 | (NA) |
| | ST MARY PARISH: TOTAL | 110 | 21 | 1 660 | 12 131 | 1 356 | 3 101 | 9 410 | 91 826 | 8 232 | 144 582 | 33 476 | 1 323 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | 9 | 780 | 6 245 | 559 | 1 193 | 4 246 | 109 666 | 35 111 | 123 627 | 21 150 | 653 | (NA) |
| | ST TAMMANY PARISH: TOTAL | 9 | 1 | 86 | 436 | 84 | 260 | 428 | 1 985 | 746 | 1 620 | 1 111 | 70 | (NA) |
| | TANGIPAHOA PARISH: TOTAL | 15 | 3 | 123 | 411 | 103 | 217 | 360 | 1 047 | 672 | 1 535 | 184 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | 3 | 119 | 392 | 99 | 208 | 342 | 927 | 606 | 1 371 | 162 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 9 | 3 | 119 | 392 | 99 | 208 | 342 | 927 | 606 | 1 371 | 162 | 136 | 512 |
| | TENSAS PARISH: TOTAL | 50 | 2 | 193 | 1 174 | 161 | 337 | 897 | 15 810 | 19 067 | 29 279 | 5 598 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 50 | 2 | 193 | 1 174 | 161 | 337 | 897 | 15 810 | 19 067 | 29 279 | 5 598 | 231 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 28 | - | 54 | 365 | 34 | 71 | 218 | 12 820 | 5 743 | 13 621 | 4 942 | 50 | (NA) |
| | TERREBONNE PARISH: TOTAL | 143 | 35 | 3 000 | 21 324 | 2 546 | 5 958 | 17 257 | 261 760 | 98 433 | 297 068 | 63 125 | 3 312 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 143 | 35 | 3 000 | 21 324 | 2 546 | 5 958 | 17 257 | 261 760 | 98 433 | 297 068 | 63 125 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 44 | 6 | 1 269 | 9 658 | 1 002 | 2 113 | 7 264 | 239 979 | 75 006 | 256 472 | 58 513 | 1 426 | (NA) |
| | UNION PARISH: TOTAL | 35 | 5 | 225 | 1 144 | 188 | 386 | 919 | 10 035 | 2 207 | 10 204 | 2 038 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 35 | 5 | 225 | 1 144 | 188 | 386 | 919 | 10 035 | 2 207 | 10 204 | 2 038 | 197 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 25 | 4 | 141 | 682 | 112 | 203 | 508 | 9 293 | 1 721 | 9 129 | 1 885 | 107 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 10 | 1 | 84 | 462 | 76 | 183 | 411 | 742 | 486 | 1 075 | 153 | (NA) | (NA) |
| | VERMILION PARISH: TOTAL | 137 | 17 | 1 105 | 7 473 | 905 | 2 035 | 5 836 | 81 981 | 87 068 | 148 710 | 20 339 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 1 065 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 56 | 5 | 367 | 2 875 | 257 | 546 | 1 948 | 69 114 | 22 257 | 74 405 | 16 966 | 238 | (NA) |
| | WASHINGTON PARISH: TOTAL | 7 | - | 56 | 164 | 49 | 104 | 140 | 485 | 426 | 801 | 110 | 129 | (NA) |
| | WEBSTER PARISH: TOTAL | 76 | 8 | 450 | 2 629 | 378 | 823 | 2 092 | 23 600 | 18 640 | 39 914 | 2 326 | 453 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 73 | 6 | 354 | 2 212 | 299 | 627 | 1 798 | 22 927 | 17 840 | 38 523 | 2 244 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 50 | 3 | 150 | 922 | 111 | 241 | 653 | 14 753 | 3 053 | 16 011 | 1 795 | 110 | (NA) |
| 132 | NATURAL GAS LIQUIDS. | 4 | 2 | 153 | 1 064 | 138 | 273 | 922 | 7 387 | 14 174 | 21 366 | 195 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 19 | 1 | 51 | 226 | 50 | 113 | 223 | 787 | 613 | 1 146 | 254 | 109 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 3 | 2 | 96 | 417 | 79 | 196 | 294 | 673 | 800 | 1 391 | 82 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 3 | 2 | 96 | 417 | 79 | 196 | 294 | 673 | 800 | 1 391 | 82 | (NA) | (NA) |
| | WEST BATON ROUGE PARISH: TOTAL . . . | 11 | - | 24 | 125 | 20 | 40 | 96 | 1 122 | 366 | 1 355 | 133 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 11 | - | 24 | 125 | 20 | 40 | 96 | 1 122 | 366 | 1 355 | 133 | 32 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 6 | - | 4 | 17 | 3 | 3 | 11 | 882 | 316 | 1 098 | 100 | (NA) | (NA) |
| | WEST FELICIANA PARISH: TOTAL | 5 | 2 | 69 | 312 | 60 | 162 | 277 | 1 222 | 301 | 1 406 | 117 | (NA) | (NA) |
| | WINN PARISH: TOTAL | 31 | 4 | 248 | 1 089 | 219 | 465 | 944 | 3 555 | 2 515 | 5 680 | 390 | 145 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 18 | - | 20 | 77 | 15 | 31 | 56 | 1 472 | 818 | 2 154 | 136 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 131 138 | OFFSHORE OPERATIONS (OIL AND GAS EXTRACTION) ¹ , TOTAL. | 122 | 45 | 5 356 | 39 422 | 4 649 | 10 658 | 32 882 | 676 127 | 319 685 | 695 869 | 299 943 | 4 732 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 28 | 10 | 1 226 | 9 843 | 981 | 2 135 | 7 638 | 592 764 | 242 638 | 570 140 | 265 262 | 1 455 | (NA) |
| | OIL AND GAS FIELD SERVICES | 94 | 35 | 4 130 | 29 579 | 3 668 | 8 523 | 25 244 | 83 363 | 77 047 | 125 729 | 34 681 | 3 277 | (NA) |
| | UNDISTRIBUTED, TOTAL. | 130 | 18 | 1 181 | 5 672 | 1 038 | 1 973 | 4 658 | 16 825 | 13 625 | 23 107 | 7 343 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 130 | 18 | 1 181 | 5 672 | 1 038 | 1 973 | 4 658 | 16 825 | 13 625 | 23 107 | 7 343 | 2 665 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 41 | 3 | 214 | 1 072 | 155 | 207 | 682 | 7 806 | 4 862 | 9 887 | 2 781 | 223 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 89 | 15 | 967 | 4 600 | 883 | 1 766 | 3 976 | 9 019 | 8 763 | 13 220 | 4 562 | 2 442 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, minerals received for preparation, purchased fuels and electricity, contract work, and purchased machinery exceed value of shipments and capital expenditures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

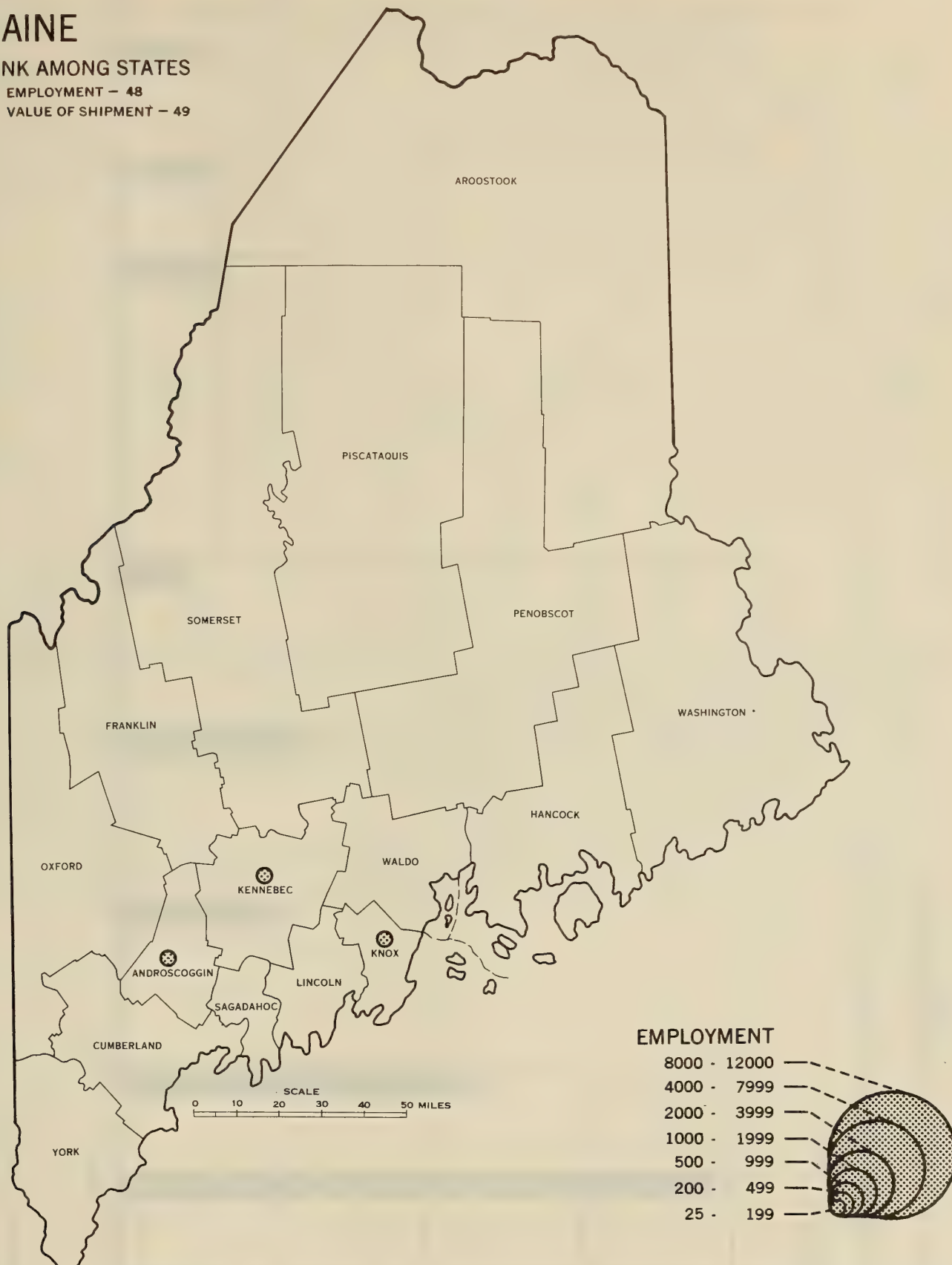
EMPLOYMENT IN MINING BY COUNTY: 1963

MAINE

RANK AMONG STATES

EMPLOYMENT - 48

VALUE OF SHIPMENT - 49



EMPLOYMENT

8000 - 12000

4000 - 7999

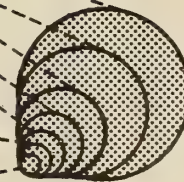
2000 - 3999

1000 - 1999

500 - 999

200 - 499

25 - 199



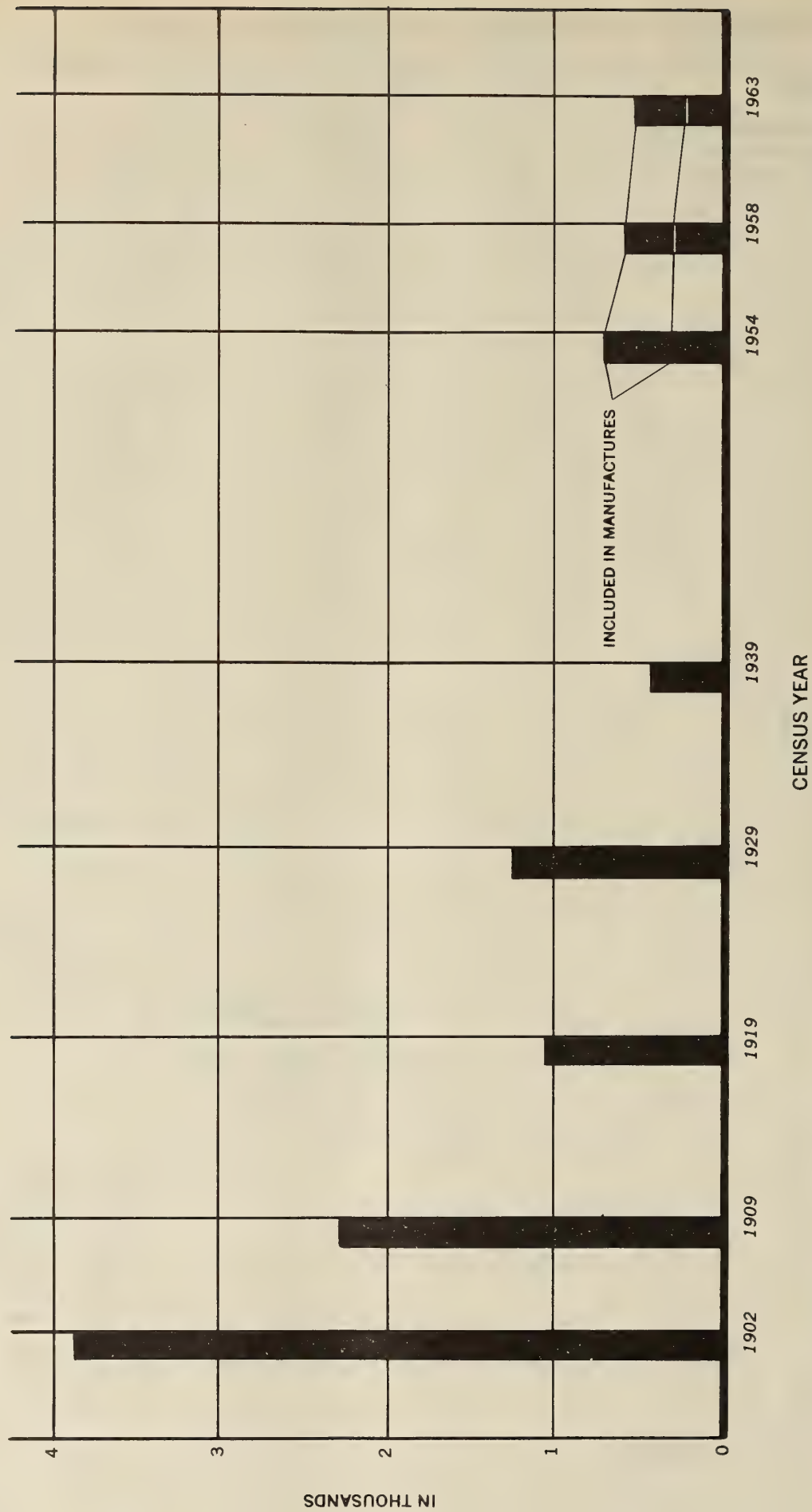
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MAINE



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 45 | 2 | 209 | 789 | 191 | 417 | 706 | 1 517 |
| 1958. | 55 | 2 | 301 | 1 005 | 266 | 547 | 883 | 2 104 |
| 1954. | 66 | 3 | 314 | 930 | 292 | 614 | 861 | 1 809 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | |
| 1963. | 64 | 8 | 510 | 2 119 | 475 | 973 | 1 955 | 3 699 |
| 1958. | 68 | 7 | 580 | 2 000 | 530 | 1 079 | 1 804 | 4 332 |
| 1954 ¹ | -77 | 10 | 699 | 2 268 | 653 | 1 330 | 2 060 | 4 304 |
| 1939 ² | 334 | (NA) | 420 | 448 | 379 | 659 | 376 | 1 134 |
| 1929 ⁴ | 52 | (NA) | 1 255 | 1 790 | 1 170 | (NA) | 1 577 | 3 038 |
| 1919 ⁵ | 50 | (NA) | 1 041 | 1 170 | 979 | (NA) | 1 052 | 1 465 |
| 1909 ⁵ | 100 | (NA) | 2 288 | 1 462 | 2 169 | (NA) | 1 341 | 1 742 |
| 1902 ⁶ | 335 | (NA) | 3 892 | 2 479 | 73 684 | (NA) | 2 285 | 3 179 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|--|---|--|-------------------------------|--|---|-------------------------|-------------------------------|--|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 480 | 1 | 20 | 260 | 1 965 | 313 | 24 | 126 | 16 |
| 1958. | 820 | - | 82 | 252 | 2 826 | 432 | 74 | 278 | (NA) |
| 1954. | 385 | 10 | 91 | 239 | 2 175 | 359 | 34 | 116 | 18 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | ⁹ 1 205 | ⁹ 1 | 21 | 273 | 4 844 | (NA) | (NA) | (NA) | (NA) |
| 1958. | ⁹ 1 419 | (⁹) | ⁹ 82 | ¹⁰ 280 | 5 703 | 10 460 | 10 90 | 170 | (NA) |
| 1954 ¹ | ⁹ 848 | 121 | ⁹ 91 | ¹⁰ 327 | 5 242 | 10 449 | 10 46 | 70 | ⁹ 21 |
| 1939 ² | 143 | (NA) | 2 | (NA) | 1 279 | (NA) | 16 | 42 | 11 |
| 1929 ⁴ | 422 | (NA) | 8 | 55 | 3 468 | (NA) | 59 | 50 | 12 |
| 1919 ⁵ | 326 | - | 32 | (NA) | 1 823 | (NA) | 1175 | 77 | 6 |
| 1909 ⁵ | 307 | - | 7 | (NA) | 2 056 | (NA) | (NA) | (NA) | 8 |
| 1902 ⁶ | 477 | (NA) | - | (NA) | 3 656 | (NA) | (NA) | (NA) | 7 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: — Represent zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operation was \$383 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for slate is not available. Excludes data for one nonproducing operation.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale and peat operations. There were 6 such mines in 1939, with products valued at less than \$100 thousand.

⁵Excludes data for sand and gravel operations and stone quarries operated as parts of cement and lime establishments. There were 6 such establishments in 1929; the value of limestone produced at 3 of these establishments was \$282 thousand. For 1919, excludes one nonproducing establishments. See also footnote 7.

⁶Excludes data for sand and gravel, common clay, and shale operations. Includes data for lime plants producing lime valued at \$742 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishments in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For 1963 and 1958, the cost of dimension stone received for preparation is included with the cost of supplies purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 8 percent of the total kwh. equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 1441 | ALL MINERAL OPERATIONS | 64 | 8 | 510 | 2 119 | 475 | 973 | 1 955 |
| | MINERAL INDUSTRIES | 45 | 2 | 209 | 789 | 191 | 417 | 706 |
| | INCLUDED IN MANUFACTURES | 19 | 6 | 1 301 | 1 330 | 1 284 | 556 | 1 249 |
| | DIMENSION STONE: DIMENSION GRANITE (INCLUDED IN MANUFACTURES. | 3 | 3 | 186 | 846 | 174 | 333 | 794 |
| | CRUSHED AND BROKEN STONE | 7 | 3 | 1 109 | 1 506 | 1 102 | 218 | 454 |
| | CRUSHED AND BROKEN LIMESTONE | 4 | 2 | 1 67 | 1 330 | 1 60 | 132 | 278 |
| | SAND AND GRAVEL. | 39 | 1 | 1 150 | 1 518 | 1 139 | 296 | 497 |
| | MINERAL INDUSTRY | 33 | 1 | 143 | 485 | 132 | 282 | 454 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 1441 | ALL MINERAL OPERATIONS | 3 699 | 2 1 500 | 1 4 844 | (NA) | 590 | 4 382 | |
| | MINERAL INDUSTRIES | 1 517 | 761 | 1 965 | 313 | 301 | 2 104 | |
| | INCLUDED IN MANUFACTURES | 2 182 | 2 739 | 1 2 879 | (NA) | 1 279 | 2 278 | |
| | DIMENSION STONE: DIMENSION GRANITE (INCLUDED IN MANUFACTURES. | 775 | 355 | 1 095 | 35 | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE | 1 389 | 2 401 | 1 1 734 | (NA) | (NA) | (NA) | |
| | CRUSHED AND BROKEN LIMESTONE | 874 | 2 309 | 1 1 127 | (NA) | (NA) | (NA) | |
| | SAND AND GRAVEL. | 1 156 | 2 569 | 1 1 504 | (NA) | 1 125 | 1 077 | |
| | MINERAL INDUSTRY | 899 | 526 | 1 204 | 221 | 105 | 907 | |

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|-----------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES . | 761 | 480 | 1 | 20 | 260 | 313 | 7 | 306 | (x) | (x) | (x) | (x) |
| 1441 | SAND AND GRAVEL. | 526 | 310 | 1 | 12 | 203 | 221 | 5 | 216 | 1 260 | 1 525 | 4 298 | (3) |

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

⁴Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| 144 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 43 | 40 | 14 | 1 | 13 | - | 26 | - | 25 | 1 | - | 3 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | 30 | - | (D) | - | 151 | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | 213 | - | (D) | - | 1 128 | (D) | - | (D) |
| | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 33 | 32 | 10 | - | 10 | - | 22 | - | 21 | 1 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 143 | (D) | 18 | - | 18 | - | (D) | - | 110 | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 899 | (D) | 101 | - | 101 | - | (D) | - | 683 | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

²Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--|----------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| | ALL MINERAL OPERATIONS. | 64 | 8 | 510 | 2 119 | 475 | 973 | 1 955 | 3 699 | 1 500 | 4 844 | (NA) | 580 | 4 382 |
| | MINERAL INDUSTRIES. | 45 | 2 | 209 | 789 | 191 | 417 | 706 | 1 517 | 761 | 1 965 | 313 | 301 | 2 104 |
| | INCLUDED IN MANUFACTURES ¹ | 19 | 6 | 301 | 1 330 | 284 | 556 | 1 249 | 2 182 | 739 | 2 879 | (NA) | 279 | 2 278 |
| | COUNTIES | | | | | | | | | | | | | |
| | (COUNTY DATA NOT SHOWN FOR THIS TABLE BECAUSE OF DIS- CLOSURE PROBLEMS.) | | | | | | | | | | | | | |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹See table 2A footnotes 1 and 2.

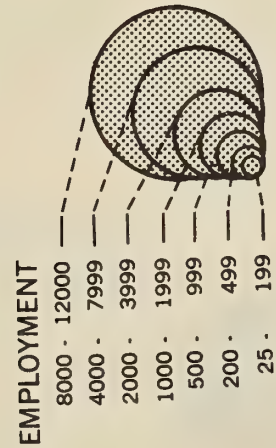
EMPLOYMENT IN MINING BY COUNTY: 1963

MARYLAND

RANK AMONG STATES

EMPLOYMENT - 36

VALUE OF SHIPMENT - 36

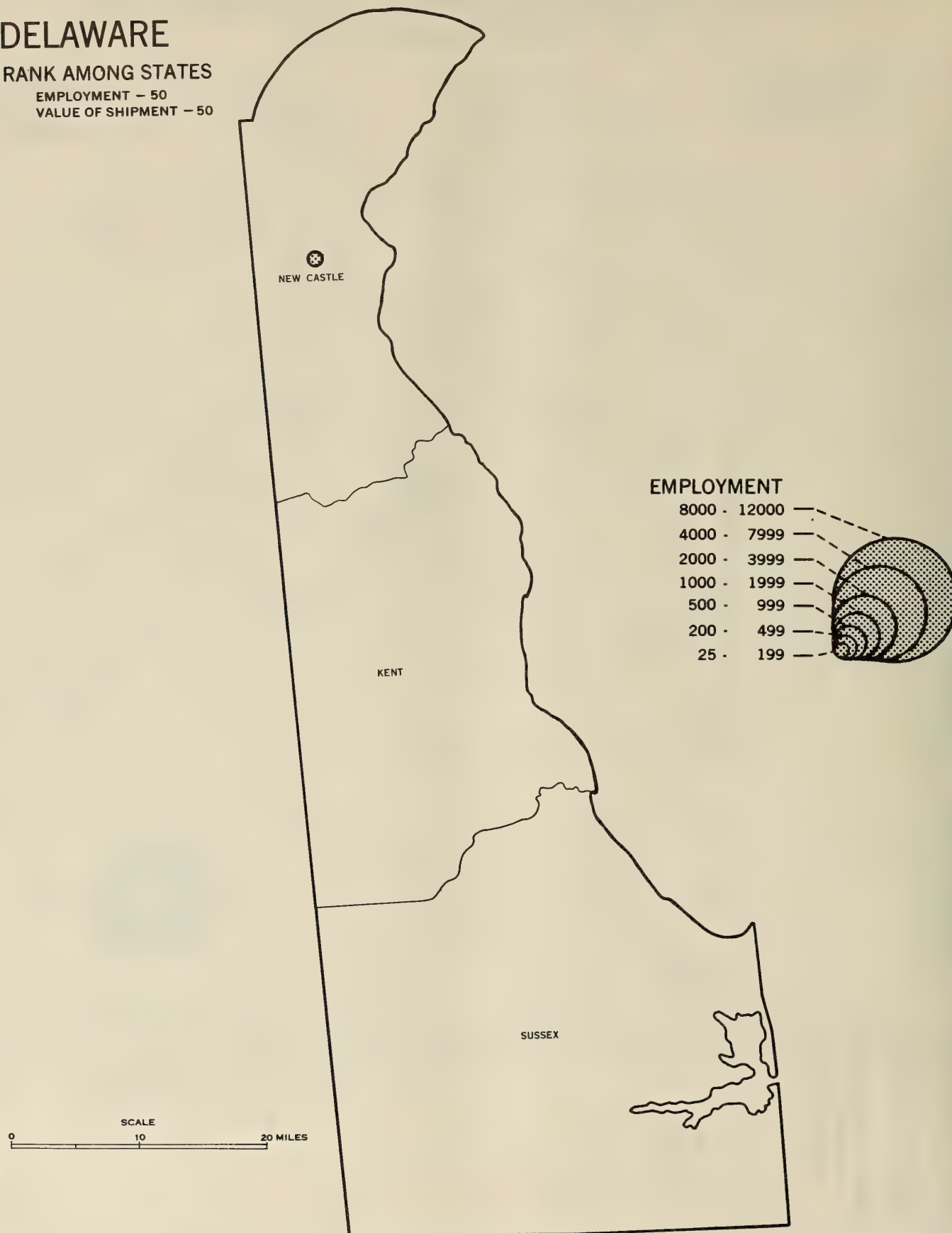


EMPLOYMENT IN MINING BY COUNTY: 1963

DELAWARE

RANK AMONG STATES

EMPLOYMENT - 50
VALUE OF SHIPMENT - 50



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING: 1963

DIST. OF COLUMBIA

RANK AMONG STATES

EMPLOYMENT - 51

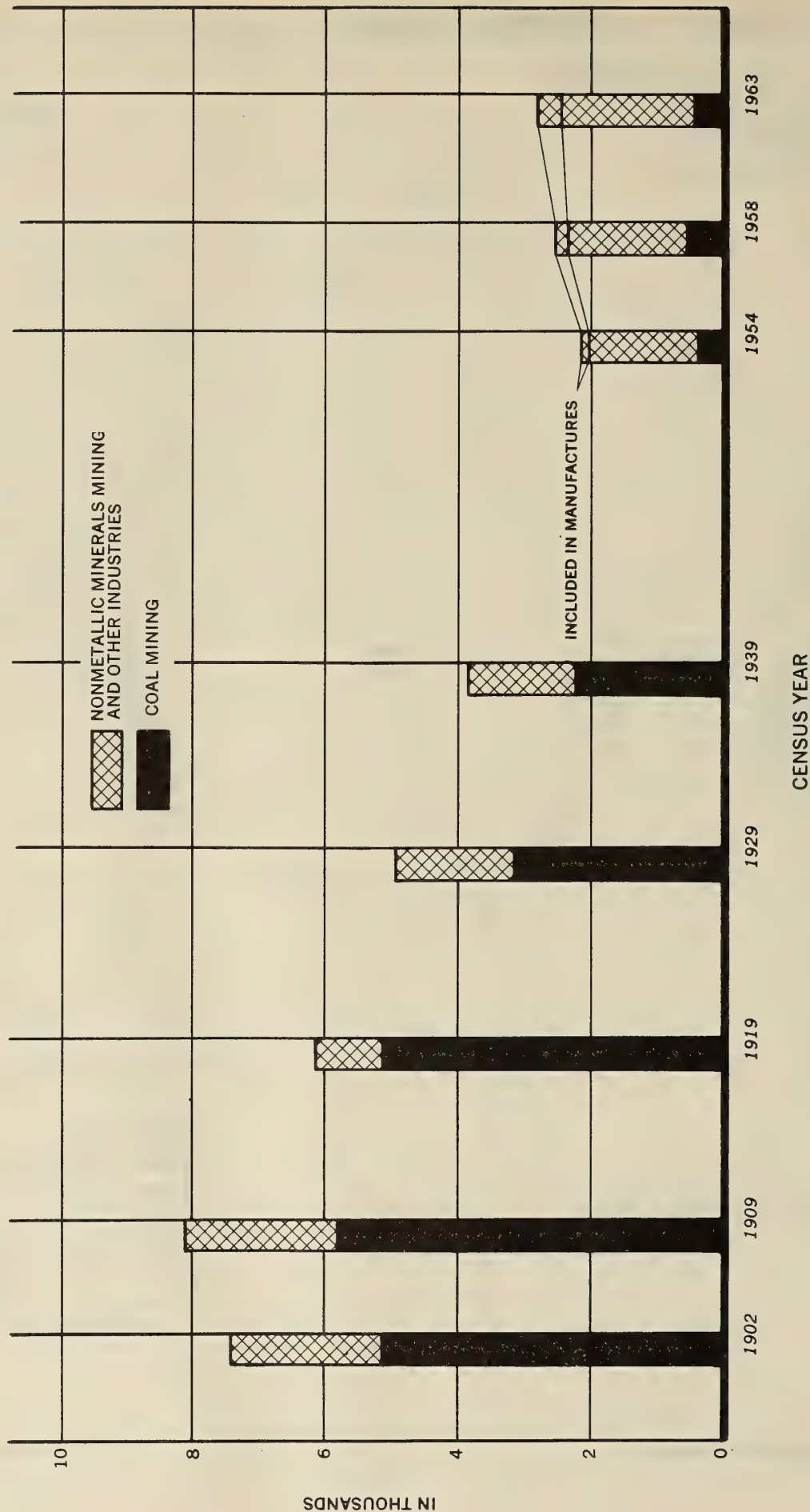
VALUE OF SHIPMENT - 51



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

DELAWARE, MARYLAND AND DIST. OF COLUMBIA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY:¹ | | | | | | | | | |
| 1963 | 179 | 32 | 2 432 | 12 764 | 2 031 | 4 298 | 9 573 | 35 284 | |
| 1958 | 176 | 30 | 2 340 | 9 694 | 1 996 | 3 800 | 7 462 | 22 604 | |
| 1954 | 196 | 30 | 2 031 | 7 130 | 1 804 | 4 098 | 6 135 | 17 941 | |
| INCLUDING OPERATIONS IN MANUFACTURES:² | | | | | | | | | |
| 1963 | 207 | 36 | 2 838 | 14 259 | 2 437 | 5 108 | 11 068 | 39 808 | |
| 1958 | 208 | 31 | 2 542 | 10 632 | 2 195 | 4 191 | 8 386 | 27 510 | |
| 1954 ¹ | 216 | 32 | 2 171 | 7 599 | 1 944 | 4 374 | 6 604 | 20 572 | |
| 1939 ² | ³ 180 | (NA) | 3 850 | 3 937 | 3 599 | 6 090 | 3 417 | 7 243 | |
| 1929 ⁴ | 112 | (NA) | 4 933 | 5 667 | 4 578 | (NA) | 4 816 | 8 134 | |
| 1919 ⁵ | 136 | (NA) | 6 172 | 7 105 | 5 756 | (NA) | 6 295 | 8 394 | |
| 1909 ⁵ | 140 | (NA) | 8 132 | 3 955 | 7 743 | (NA) | 3 557 | 5 522 | |
| 1902 ⁶ | ³ 217 | (NA) | 7 565 | 4 948 | ⁷ 1 160 | (NA) | 4 472 | 6 761 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY:¹ | | | | | | | | | |
| 1963 | 9 550 | 2 322 | 2 264 | 2 959 | 47 441 | 4 938 | 436 | 220 | 230 |
| 1958 | 8 923 | 2 504 | 1 953 | 3 325 | 35 451 | 3 858 | 346 | 173 | (NA) |
| 1954 | 5 182 | - | 736 | 2 195 | 24 142 | 1 912 | 476 | 264 | 124 |
| INCLUDING OPERATIONS IN MANUFACTURES:² | | | | | | | | | |
| 1963 | ⁹ 11 386 | 2 322 | ⁹ 2 264 | ¹⁰ 2 959 | 53 801 | ¹⁰ 4 938 | ¹⁰ 436 | 220 | ¹⁰ 230 |
| 1958 | ⁹ 9 827 | 2 504 | ⁹ 1 953 | ¹⁰ 3 328 | 41 261 | ¹⁰ 3 861 | ¹⁰ 347 | 158 | (NA) |
| 1954 ¹ | ⁹ 5 554 | - | ⁹ 736 | ¹⁰ 2 195 | 27 145 | ¹⁰ 1 912 | ¹⁰ 476 | 245 | ¹⁰ 124 |
| 1939 ² | 1 405 | (NA) | 39 | (NA) | 8 707 | (NA) | 388 | 108 | 42 |
| 1929 ⁴ | 2 988 | (NA) | - | 458 | 11 122 | (NA) | 472 | 103 | 34 |
| 1919 ⁵ | 1 544 | - | 20 | (NA) | 9 958 | (NA) | ¹¹ 541 | 94 | 19 |
| 1909 ⁵ | 762 | - | 14 | (NA) | 6 298 | (NA) | (NA) | (NA) | 20 |
| 1902 ⁶ | 843 | (NA) | 8 | (NA) | 7 612 | (NA) | (NA) | (NA) | 16 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing sandstone at such operations was \$1 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for granite is not available.

³Represents number of mines and quarries.

⁴Represents Maryland only. For 1929, only 5 establishments with 104 production and development workers were reported for Delaware and the District of Columbia. Excludes data for common clay and shale operations. There were 13 such mines in Maryland in 1939 with products valued at \$168 thousand.

⁵Excludes data for sand, gravel, common clay, and shale operations, and for stone quarries operated as parts of cement and lime plants. For 1929 in Maryland, there were 10 such common sand and gravel establishments, with products valued at \$3,781

thousand, one such glass sand establishment, and 3 such stone quarrying operations.

⁶Excludes data for sand, gravel, common clay, and shale operations, stone quarrying operations at 4 cement plants, and 2 nonproducing establishments. Includes data for lime plants producing lime valued at \$326 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments and, for 1963, dimension stone operations in manufactures.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 4 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 207 | 36 | 2 838 | 14 259 | 2 437 | 5 108 | 11 068 |
| | DELAWARE AND DISTRICT OF | | | | | | | |
| | COLUMBIA | 18 | - | 96 | 551 | 72 | 159 | 352 |
| | MARYLAND. | 189 | 36 | 2 742 | 13 708 | 2 365 | 4 949 | 10 716 |
| | MINERAL INDUSTRIES. | 179 | 32 | 2 432 | 12 764 | 2 031 | 4 298 | 9 573 |
| | INCLUDED IN MANUFACTURES. | 28 | 4 | 1 406 | 1 495 | 1 406 | 810 | 1 495 |
| 10 | METAL MINING AND OIL AND GAS | | | | | | | |
| 13 | | EXTRACTION | 6 | - | 75 | 632 | 33 | 67 |
| 12 | BITUMINOUS COAL MINING (MARYLAND) | 64 | 4 | 413 | 1 455 | 398 | 671 | 1 408 |
| 1211 | | BITUMINOUS COAL | 64 | 4 | 413 | 1 455 | 398 | 671 |
| | NONMETALLIC MINERALS MINING | 137 | 32 | 2 350 | 12 172 | 2 006 | 4 370 | 9 504 |
| 14 | MINERAL INDUSTRIES. | 109 | 28 | 1 944 | 10 677 | 1 600 | 3 560 | 8 009 |
| | | INCLUDED IN MANUFACTURES. | 28 | 4 | 1 406 | 1 495 | 1 406 | 810 |
| | CRUSHED AND BROKEN STONE. | 34 | 18 | 995 | 5 252 | 848 | 1 807 | 3 737 |
| 142 | MINERAL INDUSTRY. | 28 | 15 | 755 | 4 463 | 608 | 1 327 | 2 948 |
| | | INCLUDED IN MANUFACTURES (MARYLAND) | 6 | 3 | 1 240 | 1 789 | 1 240 | 480 |
| | CRUSHED AND BROKEN LIMESTONE; MINERAL SUBINDUSTRY (MARYLAND). | 15 | 9 | 425 | 2 399 | 375 | 852 | 1 784 |
| | CRUSHED AND BROKEN STONE, N.E.C. (MARYLAND) | 12 | 6 | 1 420 | 1 2 032 | 1 324 | 670 | 1 139 |
| | SAND AND GRAVEL | 78 | 13 | 1 223 | 6 402 | 1 035 | 2 318 | 5 313 |
| | DELAWARE. | 15 | - | 69 | 341 | 62 | 139 | 310 |
| | MARYLAND. | 63 | 13 | 1 154 | 6 061 | 973 | 2 179 | 5 003 |
| 144 | MINERAL INDUSTRY. | 67 | 13 | 1 109 | 5 891 | 921 | 2 090 | 4 802 |
| | | DELAWARE. | 11 | - | 53 | 259 | 46 | 106 |
| | MARYLAND. | 56 | 13 | 1 056 | 5 632 | 875 | 1 984 | 4 574 |
| | INCLUDED IN MANUFACTURES. | 11 | - | 1 114 | 1 511 | 1 114 | 228 | 511 |
| | DELAWARE. | 4 | - | 16 | 182 | 116 | 33 | 82 |
| | MARYLAND. | 7 | - | 198 | 1 429 | 198 | 195 | 429 |
| | CLAY AND RELATED MINERALS | 13 | - | 1 43 | 1 175 | 1 43 | 80 | 175 |
| | CLAY AND RELATED MINERALS, N.E.C.; INCLUDED IN MANUFACTURES (MARYLAND ONLY). | 8 | - | 1 22 | 1 94 | 1 22 | 42 | 94 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 39 808 | 218 940 | 1 53 801 | (NA) | 2 542 | 27 510 | |
| | DELAWARE AND DISTRICT OF | | | | | | | |
| | COLUMBIA | 1 344 | 2 782 | 1 964 | (NA) | 1 110 | 1 330 | |
| | MARYLAND. | 38 464 | 218 158 | 1 51 837 | (NA) | 1 2 432 | 26 180 | |
| | MINERAL INDUSTRIES. | 35 284 | 17 095 | 47 441 | 4 938 | 2 340 | 22 604 | |
| | INCLUDED IN MANUFACTURES. | 4 524 | 21 845 | 1 6 360 | (NA) | 1 202 | 4 906 | |
| 10 | METAL MINING AND OIL AND GAS | | | | | | | |
| 13 | | EXTRACTION | 810 | 1 515 | 1 818 | 507 | 52 | 1 120 |
| 12 | BITUMINOUS COAL MINING (MARYLAND) | 3 709 | 2 063 | 5 185 | 587 | 560 | 3 170 | |
| 1211 | | BITUMINOUS COAL | 3 709 | 2 063 | 5 185 | 587 | 560 | 2 985 |
| | NONMETALLIC MINERALS MINING | 35 289 | 215 362 | 1 46 798 | 3 853 | 1 930 | 23 220 | |
| 14 | MINERAL INDUSTRIES. | 30 765 | 13 517 | 40 438 | 3 844 | 1 728 | 18 314 | |
| | | INCLUDED IN MANUFACTURES. | 4 524 | 21 845 | 1 6 360 | 2 9 | 1 202 | 4 906 |
| | CRUSHED AND BROKEN STONE. | 15 181 | 28 327 | 1 22 337 | (NA) | 868 | 11 325 | |
| 142 | MINERAL INDUSTRY. | 13 293 | 6 869 | 18 991 | 1 171 | 815 | 9 134 | |
| | | INCLUDED IN MANUFACTURES (MARYLAND) | 1 888 | 21 458 | 13 346 | (NA) | 153 | 2 191 |
| | CRUSHED AND BROKEN LIMESTONE; MINERAL SUBINDUSTRY (MARYLAND). | 6 919 | 2 529 | 9 025 | 423 | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE, N.E.C. (MARYLAND) | 5 160 | 24 743 | 19 185 | 2 718 | 153 | 1 190 | |
| | SAND AND GRAVEL | 17 689 | 26 373 | 1 22 316 | (NA) | 869 | 10 036 | |
| | DELAWARE. | 935 | 2 497 | 1 280 | (NA) | (NA) | (NA) | |
| | MARYLAND. | 16 754 | 25 876 | 1 21 036 | (NA) | (NA) | (NA) | |
| 144 | MINERAL INDUSTRY. | 15 876 | 6 157 | 20 287 | 1 746 | 808 | 8 208 | |
| | | DELAWARE. | 435 | 444 | 727 | 152 | 60 | 599 |
| | MARYLAND. | 15 441 | 5 713 | 19 560 | 1 594 | 748 | 7 609 | |
| | INCLUDED IN MANUFACTURES. | 1 813 | 2 216 | 1 2 029 | (NA) | 1 61 | 1 828 | |
| | DELAWARE. | 500 | 2 53 | 1 553 | (NA) | (NA) | (NA) | |
| | MARYLAND. | 1 313 | 2 163 | 1 1 476 | (NA) | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS | 1 563 | 2 239 | 1 998 | (NA) | 1 79 | 1 004 | |
| | CLAY AND RELATED MINERALS, N.E.C.; INCLUDED IN MANUFACTURES (MARYLAND ONLY). | 570 | 2 108 | 1 678 | (NA) | (NA) | (NA) | |

Footnotes on next page.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

Footnotes for Table 2A.

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 17 095 | 9 550 | 2 322 | 2 264 | 2 959 | 4 938 | 650 | 4 288 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING (MARYLAND) | 2 063 | ³ 1 506 | (³) | 93 | 464 | 587 | 26 | 561 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 2 063 | ³ 1 506 | (³) | 93 | 464 | 587 | 26 | 561 | 1 197 | 4 617 | - | - |
| 14 | NONMETALLIC MINERALS MINING . | 13 517 | ³ 9 169 | (³) | 1 906 | 2 442 | 3 844 | 253 | 3 591 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . | 6 869 | 4 069 | 57 | 1 604 | 1 139 | 1 171 | 31 | 1 140 | 9 801 | 17 990 | ⁴ 2 578 | ⁴ 3 367 |
| | CRUSHED AND BROKEN LIMESTONE (MARYLAND) . . | 2 529 | ³ 1 893 | (³) | 168 | 468 | 423 | 2 | 421 | 4 683 | 8 374 | ⁴ 2 013 | ⁴ 2 229 |
| 1441 | SAND AND GRAVEL | 6 157 | ³ 4 670 | (³) | 295 | 1 192 | 1 746 | 17 | 1 729 | 13 290 | ⁵ 19 874 | ⁴ 1 558 | (⁵) |
| | MARYLAND. | 5 713 | ³ 4 515 | (³) | 200 | 998 | 1 594 | 16 | 1 578 | 12 919 | ⁵ 18 100 | ⁴ 1 202 | (⁵) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|--------------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | MARYLAND, DELAWARE AND DISTRICT OF COLUMBIA | | | | | | | | | | | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 178 | 175 | 78 | 38 | 36 | 4 | 94 | 4 | 88 | 2 | 3 | 3 |
| | NUMBER OF EMPLOYEES..... | ² 2 144 | ² 2 123 | ² 391 | 189 | 135 | ² 67 | 1 696 | (D) | 1 625 | (D) | 36 | 21 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 35 284 | ² 32 287 | ² 4 310 | 1 105 | 2 494 | ² 711 | 27 387 | (D) | 26 550 | (D) | 590 | 735 |
| 12 | BITUMINOUS COAL MINING..... | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 64 | 64 | 55 | 38 | 16 | 1 | 8 | 3 | 5 | - | 1 | - |
| | NUMBER OF EMPLOYEES..... | 413 | 413 | (D) | 189 | (D) | (D) | (D) | 33 | (D) | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 709 | 3 709 | (D) | 1 105 | (D) | (D) | (D) | 532 | (D) | - | (D) | - |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 109 | 107 | 20 | - | 20 | - | 86 | 1 | 83 | 2 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 678 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 30 765 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 28 | 28 | 1 | - | 1 | - | 27 | 1 | 26 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 706 | 706 | (D) | - | (D) | - | (D) | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 13 293 | 13 293 | (D) | - | (D) | - | (D) | (D) | (D) | - | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 67 | 66 | 10 | - | 10 | - | 56 | - | 54 | 2 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 894 | (D) | (D) | - | (D) | - | 853 | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 15 876 | (D) | (D) | - | (D) | - | 15 380 | - | (D) | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for one oil and gas service establishments.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 207 | 36 | 2 838 | 14 259 | 2 437 | 5 108 | 11 068 | 39 808 | 18 940 | 53 801 | (NA) | 2 542 | 27 510 |
| | DELAWARE AND DISTRICT OF COLUMBIA. | 18 | - | 96 | 551 | 72 | 159 | 352 | 1 344 | 782 | 1 964 | (NA) | 110 | 1 330 |
| | MARYLAND | 189 | 36 | 2 742 | 13 708 | 2 365 | 4 949 | 10 716 | 38 464 | 18 158 | 51 837 | (NA) | 2 432 | 26 180 |
| | MINERAL INDUSTRIES | 179 | 32 | 2 432 | 12 764 | 2 031 | 4 298 | 9 573 | 35 284 | 17 095 | 47 441 | 4 938 | 2 340 | 22 604 |
| | INCLUDED IN MANUFACTURES ² | 28 | 4 | 406 | 1 495 | 406 | 810 | 1 495 | 4 524 | 1 845 | 6 360 | (NA) | 202 | 4 906 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | MARYLAND: | | | | | | | | | | | | | |
| | ALLEGANY COUNTY, TOTAL | 48 | 2 | 221 | 817 | 207 | 369 | 766 | 2 942 | 1 496 | 4 017 | 421 | (NA) | (NA) |
| 12 | BITUMINOUS COAL MINING | 41 | - | 147 | 463 | 142 | 216 | 448 | 1 871 | 988 | 2 515 | 344 | 211 | 1 480 |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 3 | 1 | 49 | 243 | 41 | 100 | 214 | 796 | 307 | 1 040 | 63 | (NA) | (NA) |
| | BALTIMORE COUNTY, TOTAL. | 17 | 6 | 326 | 2 311 | 252 | 504 | 1 357 | 6 142 | 2 171 | 7 781 | 532 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 8 | 5 | 230 | 1 467 | 192 | 369 | 984 | 4 753 | 1 480 | 5 748 | 485 | (NA) | (NA) |
| | CECIL COUNTY, TOTAL. | 10 | 3 | 130 | 644 | 117 | 250 | 551 | 2 870 | 1 489 | 4 059 | 300 | (NA) | (NA) |
| | GARRETT COUNTY, TOTAL. | 38 | 4 | 318 | 1 213 | 304 | 544 | 1 158 | 2 748 | 1 916 | 3 783 | 881 | 416 | (NA) |
| 12 | BITUMINOUS COAL MINING | 23 | 4 | 280 | 1 047 | 270 | 474 | 1 015 | 1 883 | 1 278 | 2 922 | 239 | 349 | 1 690 |
| 13 | OIL AND GAS EXTRACTION | 8 | - | 15 | 68 | 13 | 24 | 57 | 643 | 497 | 595 | 545 | (NA) | (NA) |
| | HARFORD COUNTY, TOTAL. | 7 | 2 | 89 | 432 | 64 | 136 | 272 | 779 | 366 | 1 071 | 74 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 2 | 89 | 432 | 64 | 136 | 272 | 779 | 366 | 1 071 | 74 | 128 | 1 005 |
| | PRINCE GEORGES COUNTY, TOTAL | 23 | 8 | 515 | 2 896 | 447 | 984 | 2 403 | 8 329 | 3 215 | 10 566 | 978 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 23 | 8 | 515 | 2 896 | 447 | 984 | 2 403 | 8 329 | 3 215 | 10 566 | 978 | 258 | 2 337 |
| | DELAWARE: | | | | | | | | | | | | | |
| | NEW CASTLE COUNTY, TOTAL | 8 | - | 61 | 439 | 32 | 74 | 168 | 547 | 549 | 996 | 100 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963**

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 121 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|--|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 111C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | |
| MARYLAND | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARYLAND: TOTAL | 189 | 166 | 23 | 1 | - | - | - | - | - | - | - | - | - | 64 | - | 4 | - | 1 | 3 | 1 | 27 | 6 | 56 | 7 | 3 | 9 | - | - | 7 | - | |
| NO EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 1 | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | |
| 1-4 EMPLOYEES | 76 | 67 | 9 | - | - | - | - | - | - | - | - | - | - | 36 | - | 3 | - | - | 1 | - | 4 | 1 | 19 | 1 | - | - | - | - | 4 | - | |
| 5-9 EMPLOYEES | 28 | 24 | 4 | - | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - | - | - | 5 | - | 8 | 2 | 2 | 7 | - | - | - | - | |
| 10-19 EMPLOYEES | 38 | 32 | 6 | 1 | - | - | - | - | - | - | - | - | - | 9 | - | - | - | 1 | 2 | - | 3 | 2 | 14 | 4 | - | 2 | - | - | 2 | - | |
| 20-49 EMPLOYEES | 25 | 22 | 3 | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | 1 | 11 | 2 | 8 | - | - | - | - | - | - | - | |
| 50-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - | - | |
| ALLEGANY COUNTY: TOTAL | 50 | 48 | 2 | - | - | - | - | - | - | - | - | - | - | 41 | - | 1 | - | 1 | - | - | 2 | 1 | 3 | - | - | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | 48 | 46 | 2 | - | - | - | - | - | - | - | - | - | - | 41 | - | 1 | - | 1 | - | - | 1 | 1 | 2 | - | - | 1 | - | - | - | - | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | |
| ANNE ARUNDEL COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| BALTIMORE: TOTAL | 2 | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| BALTIMORE COUNTY: TOTAL | 19 | 17 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | 8 | - | 4 | 1 | 1 | 1 | - | 1 | 1 | - | |
| 0-19 EMPLOYEES | 13 | 11 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | 3 | - | 3 | 1 | 1 | 1 | - | 1 | 1 | - | |
| 20-99 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | - | - | - | - | - | |
| CALVERT COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | |
| CAROLINE COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| CARROLL COUNTY: TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | 1 | - | - | 1 | - | |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | |
| CECIL COUNTY: TOTAL | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | 6 | 1 | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 5 | 1 | 1 | - | - | - | - | - | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | |
| CHARLES COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| FREDERICK COUNTY: TOTAL | 6 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | 1 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| GARRETT COUNTY: TOTAL | 38 | 38 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| DELAWARE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DELAWARE, TOTAL. | 17 | 13 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 11 | 4 | - | - | 1 | - | - | - |
| 1-4 EMPLOYEES. | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 3 | - | - | - | - | - | - |
| 5-9 EMPLOYEES. | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | - | 1 | - | - | - | - |
| 10-19 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| KENT COUNTY, TOTAL. | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | - | - | - | - |
| NEW CASTLE COUNTY, TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 1 | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 1 | - | - | 1 | - | - | - |
| SUSSEX COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| DISTRICT OF COLUMBIA | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DISTRICT OF COLUMBIA, TOTAL. . . | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| NO EMPLOYEES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-4 EMPLOYEES. | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 5-9 EMPLOYEES. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10-19 EMPLOYEES. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

MASSACHUSETTS

RANK AMONG STATES

EMPLOYMENT - 42

VALUE OF SHIPMENT - 43



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MASSACHUSETTS



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 128 | 24 | 1 655 | 10 054 | 1 216 | 2 562 | 6 503 | 16 902 | |
| 1953 | 111 | 12 | 1 285 | 7 077 | 824 | 1 750 | 3 337 | 10 624 | |
| 1954 | 127 | 13 | 1 207 | 4 945 | 992 | 2 142 | 3 772 | 3 925 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 158 | 31 | 2 222 | 13 318 | 1 699 | 3 550 | 9 037 | 25 304 | |
| 1953 | 144 | 15 | 1 903 | 10 231 | 1 357 | 2 326 | 6 343 | 13 656 | |
| 1954 ¹ | 143 | 16 | 1 924 | 3 074 | 1 626 | 3 332 | 6 291 | 14 719 | |
| 1939 ² | ³ 112 | (NA) | 1 563 | 2 528 | 1 206 | 2 512 | 1 436 | 4 610 | |
| 1929 ⁴ | 95 | (NA) | 2 694 | 4 867 | 2 419 | (NA) | 4 046 | 3 676 | |
| 1919 ⁵ | 74 | (NA) | 1 860 | 2 394 | 1 704 | (NA) | 2 069 | 3 407 | |
| 1909 ⁵ | 140 | (NA) | 3 476 | 2 180 | 3 300 | (NA) | 1 967 | 2 935 | |
| 1902 ⁶ | ² 251 | (NA) | 4 602 | 2 835 | ⁷ 4 242 | (NA) | 2 525 | 3 908 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | ⁹ 451 | (⁹) | 499 | 2 737 | 22 442 | 3 147 | 426 | 350 | 146 |
| 1953 | 3 376 | - | 416 | 962 | 14 151 | 1 227 | 223 | 271 | (NA) |
| 1954 | 2 391 | 4 | 287 | 1 635 | 11 577 | 1 665 | 140 | 139 | 91 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | ¹⁰ 8 316 | 640 | ¹⁰ 499 | ¹¹ 2 799 | 33 316 | ¹¹ 3 230 | (NA) | (NA) | (NA) |
| 1953 | ¹⁰ 5 024 | - | ¹⁰ 417 | ¹¹ 938 | 23 831 | ¹¹ 1 254 | ¹¹ 264 | 195 | (NA) |
| 1954 ¹ | ¹⁰ 3 684 | 201 | ¹⁰ 292 | ¹¹ 1 696 | 19 366 | ¹¹ 1 726 | ¹¹ 135 | 115 | ¹¹ 102 |
| 1939 ² | 983 | (NA) | 6 | (NA) | 5 599 | (NA) | 157 | 130 | 53 |
| 1929 ⁴ | 1 691 | (NA) | 20 | 691 | 10 397 | (NA) | 217 | 90 | 33 |
| 1919 ⁵ | 753 | - | 11 | (NA) | 4 176 | (NA) | ¹² 177 | 104 | 12 |
| 1909 ⁵ | 517 | - | 16 | (NA) | 3 463 | (NA) | (NA) | (NA) | 15 |
| 1902 ⁶ | 762 | (NA) | 2 | (NA) | 4 672 | (NA) | (NA) | (NA) | 11 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for any sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operations was \$369 thousand; this value has been included in the value of shipments and value added in mining. The comparable value of marble and sandstone is not available.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale operations. There were 6 such mines in 1939 with products valued at \$41 thousand.

⁵Excludes data for sand and gravel operations and stone quarries operated as parts of lime establishments. There were 22 such operations in 1929 with products valued at \$1,816 thousand. See also footnote 4.

⁶Excludes data for sand and gravel, common clay, and shale operations. Includes data for lime plants producing lime valued at \$324 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909 represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For all other years, represents net production and excludes this duplication.

⁹Cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments and, for 1963, for dimension stone in manufactures, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuel and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For similar operations in 1929, the quantity of purchased electric energy amounted to only 6 percent of the total kwh. equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 14 | ALL MINERAL OPERATIONS | 158 | 31 | 2 222 | 13 318 | 1 699 | 3 550 | 9 037 |
| | MINERAL INDUSTRIES | 128 | 24 | 1 655 | 10 054 | 1 216 | 2 562 | 6 508 |
| | INCLUDED IN MANUFACTURES | 30 | 7 | ¹ 567 | ¹³ 264 | ¹ 483 | 988 | 2 529 |
| 14 | NONMETALLIC MINERALS MINING | 158 | 31 | 2 036 | 11 425 | 1 699 | 3 550 | 9 037 |
| | MINERAL INDUSTRIES | 128 | 24 | 1 469 | 8 161 | 1 216 | 2 562 | 6 508 |
| | INCLUDED IN MANUFACTURES | 30 | 7 | ¹ 567 | ¹³ 264 | ¹ 483 | 988 | 2 529 |
| 1421 | CRUSHED AND BROKEN STONE | 24 | 9 | 517 | 2 872 | 431 | 909 | 2 344 |
| | MINERAL INDUSTRY | 13 | 7 | 393 | 2 258 | 307 | 662 | 1 730 |
| | INCLUDED IN MANUFACTURES | 11 | 2 | ¹ 124 | ¹ 614 | ¹ 124 | 247 | 614 |
| | CRUSHED AND BROKEN LIMESTONE . . . | 7 | 2 | ¹ 107 | ¹ 476 | ¹ 104 | 209 | 456 |
| | CRUSHED AND BROKEN STONE, N.E.C., (MINERAL SUBINDUSTRY) | 8 | 4 | 230 | 1 420 | 199 | 423 | 1 148 |
| | SAND AND GRAVEL | 116 | 17 | 1 094 | 6 061 | 938 | 1 957 | 4 995 |
| 1441 | MINERAL INDUSTRY | 109 | 16 | 1 026 | 5 709 | 870 | 1 821 | 4 643 |
| | INCLUDED IN MANUFACTURES | 7 | 1 | ¹ 68 | ¹ 352 | ¹ 68 | 136 | 352 |
| | CLAY AND RELATED MINERALS | 6 | 1 | ¹ 34 | ¹ 117 | ¹ 31 | 64 | 98 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 14 | ALL MINERAL OPERATIONS | 25 304 | ² 11 742 | ¹³³ 816 | ³³ 230 | 1 903 | 18 656 | |
| | MINERAL INDUSTRIES | 16 902 | 8 687 | 22 442 | 3 147 | 1 285 | 10 624 | |
| | INCLUDED IN MANUFACTURES | 8 402 | ²³ 055 | ¹¹¹ 374 | ³⁸³ | ¹ 618 | 8 032 | |
| 14 | NONMETALLIC MINERALS MINING | 25 304 | ² 11 742 | ¹³³ 816 | ³³ 230 | (NA) | 18 656 | |
| | MINERAL INDUSTRIES | 16 902 | 8 687 | 22 442 | 3 147 | (NA) | 10 624 | |
| | INCLUDED IN MANUFACTURES | 8 402 | ²³ 055 | ¹¹¹ 374 | ³⁸³ | (NA) | 8 032 | |
| 1421 | CRUSHED AND BROKEN STONE | 7 675 | ²³ 302 | ¹¹⁰ 430 | (NA) | 450 | 6 640 | |
| | MINERAL INDUSTRY | 4 575 | 1 932 | 5 960 | 547 | 400 | 4 464 | |
| | INCLUDED IN MANUFACTURES | 3 100 | ²¹ 370 | ¹⁴ 470 | (NA) | ¹⁵⁰ | 2 176 | |
| | CRUSHED AND BROKEN LIMESTONE . . . | 1 927 | ²¹ 048 | ¹² 932 | (NA) | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE, N.E.C., (MINERAL SUBINDUSTRY) | 3 297 | 1 257 | 4 121 | 433 | 272 | 3 267 | |
| | SAND AND GRAVEL | 13 858 | ²⁶ 692 | ¹¹⁷ 983 | (NA) | 671 | 8 678 | |
| 1441 | MINERAL INDUSTRY | 11 876 | 6 472 | 15 781 | 2 567 | 589 | 6 112 | |
| | INCLUDED IN MANUFACTURES | 1 932 | ² 220 | ¹² 202 | (NA) | ¹⁸² | 2 566 | |
| | CLAY AND RELATED MINERALS | 397 | ² 154 | ¹⁵²¹ | (NA) | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained for other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES (NONMETALLIC MINERALS MINING) | 8 687 | 35 451 | (³) | 499 | 2 737 | 3 147 | 29 | 3 118 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE | 1 932 | 31 143 | (³) | 165 | 624 | 547 | 6 | 541 | 3 000 | 5 518 | 42 149 | 43 541 |
| 1441 | SAND AND GRAVEL | 6 472 | 3 710 | 352 | 310 | 2 100 | 2 567 | 22 | 2 545 | 15 042 | 16 615 | 62 580 | 63 541 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Cost of minerals received for preparation is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Excludes figures for minerals produced and used in the same establishment.

⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------|--------------------|----------------|--|-----------------------------|
| | | | Total | Mines only | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | | |
| 14 | ALL MINERAL INDUSTRIES | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 128 | 125 | 16 | - | 16 | - | 107 | - | 106 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 655 | 1 634 | 148 | - | 148 | - | (D) | - | 1 413 | (D) | 21 |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 902 | 16 874 | 1 351 | - | 1 351 | - | (D) | - | 14 694 | (D) | 28 |
| 142 | NONMETALLIC MINERALS MINING | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 128 | 125 | 16 | - | 16 | - | 107 | - | 106 | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 655 | 1 634 | 148 | - | 148 | - | (D) | - | 1 413 | (D) | 21 |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 902 | 16 874 | 1 351 | - | 1 351 | - | (D) | - | 14 694 | (D) | 28 |
| 144 | CRUSHED AND BROKEN STONE | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 13 | 13 | 3 | - | 3 | - | 9 | - | 9 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 393 | 393 | (D) | - | (D) | - | (D) | - | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 575 | 4 575 | (D) | - | (D) | - | (D) | - | (D) | - | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 109 | 106 | 8 | - | 8 | - | 97 | - | 96 | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 026 | 1 005 | (D) | - | (D) | - | (D) | - | 924 | (D) | 21 |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 876 | 11 848 | (D) | - | (D) | - | (D) | - | 10 684 | (D) | 28 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--|----------------|--------------------------------------|---------------|--------------|---|------------|------------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 158 | 31 | 2 222 | 13 318 | 1 699 | 3 550 | 9 037 | 25 304 | 11 742 | 33 816 | 3 230 | 1 903 | 18 656 |
| | MINERAL INDUSTRIES | 128 | 24 | 1 655 | 10 054 | 1 216 | 2 562 | 6 508 | 16 902 | 8 687 | 22 442 | 3 147 | 1 285 | 10 624 |
| | INCLUDED IN MANUFACTURES ¹ | 30 | 7 | 567 | 3 264 | 483 | 988 | 2 529 | 8 402 | 3 055 | 11 374 | 83 | 618 | 8 032 |
| | COUNTIES ² | | | | | | | | | | | | | |
| 14 | BERKSHIRE COUNTY, TOTAL. | 10 | 3 | 66 | 369 | 56 | 127 | 289 | 674 | 443 | 927 | 190 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 10 | 3 | 66 | 369 | 56 | 127 | 289 | 674 | 443 | 927 | 190 | 38 | 1 708 |
| 14 | BRISTOL COUNTY, TOTAL. | 8 | 3 | 126 | 716 | 114 | 240 | 601 | 1 444 | 436 | 1 700 | 180 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 8 | 3 | 126 | 716 | 114 | 240 | 601 | 1 444 | 436 | 1 700 | 180 | 107 | 889 |
| 14 | ESSEX COUNTY, TOTAL. | 12 | 1 | 58 | 310 | 49 | 104 | 280 | 919 | 874 | 1 375 | 418 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 12 | 1 | 58 | 310 | 49 | 104 | 280 | 919 | 874 | 1 375 | 418 | 94 | 1 054 |
| 14 | HAMPDEN COUNTY, TOTAL. | 10 | 2 | 126 | 733 | 111 | 234 | 627 | 1 775 | 671 | 2 217 | 229 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 10 | 2 | 126 | 733 | 111 | 234 | 627 | 1 775 | 671 | 2 217 | 229 | 120 | 1 450 |
| 14 | MIDDLESEX COUNTY, TOTAL. | 32 | 7 | 440 | 2 640 | 367 | 800 | 2 153 | 5 467 | 2 826 | 7 293 | 993 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 32 | 7 | 440 | 2 640 | 367 | 800 | 2 153 | 5 467 | 2 819 | 7 293 | 993 | 232 | 2 328 |
| 14 142 | NORFOLK COUNTY, TOTAL. | 16 | 4 | 247 | 1 216 | 181 | 354 | 878 | 2 241 | 1 490 | 3 305 | 426 | 162 | 1 652 |
| | NONMETALLIC MINERALS MINING. CRUSHED AND BROKEN STONE | 16 4 | 4 2 | 247 145 | 1 216 609 | 181 97 | 354 205 | 878 436 | 2 241 849 | 1 490 652 | 3 305 1 381 | 426 120 | 154 (NA) | 1 464 (NA) |
| 14 | PLYMOUTH COUNTY, TOTAL | 7 | - | 44 | 205 | 36 | 72 | 155 | 281 | 267 | 515 | 33 | 55 | 622 |
| | NONMETALLIC MINERALS MINING. | 7 | - | 44 | 205 | 36 | 72 | 155 | 281 | 267 | 515 | 33 | 29 | 431 |
| 14 144 | WORCESTER COUNTY, TOTAL. | 11 | 1 | 76 | 482 | 50 | 97 | 235 | 942 | 306 | 1 174 | 74 | 146 | 1 559 |
| | NONMETALLIC MINERALS MINING. SAND AND GRAVEL. | 11 11 | 1 1 | 76 76 | 482 482 | 50 50 | 97 97 | 235 235 | 942 942 | 306 306 | 1 174 1 174 | 74 74 | 124 (NA) | 1 433 (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹See table 2A footnotes 1 and 2.

²Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 121 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------|----------------------------------|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| MASSACHUSETTS: TOTAL | 158 | 128 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 9 | 13 | 11 | 109 | 7 | 2 | 3 | - | - | - | - |
| NO EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 1 | - | - | - | - | - |
| 1-4 EMPLOYEES | 52 | 44 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 1 | 4 | 40 | 1 | - | 2 | - | - | - | - |
| 5-9 EMPLOYEES | 36 | 27 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | 27 | 2 | - | 1 | - | - | - | - |
| 10-19 EMPLOYEES | 33 | 28 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 5 | 1 | 22 | 2 | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 28 | 22 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 5 | 2 | 16 | 1 | 1 | - | - | - | - | - |
| 50-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| BARNSTABLE COUNTY: TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BERKSHIRE COUNTY: TOTAL | 15 | 10 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 4 | 8 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | 6 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 2 | - | - | - | - | - | - | - |
| BRISTOL COUNTY: TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 6 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| ESSEX COUNTY: TOTAL | 16 | 12 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 10 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 11 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 9 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| FRANKLIN COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| HAMPDEN COUNTY: TOTAL | 13 | 10 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 9 | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 1 | - | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - | - | - | - | - |
| HAMPSHIRE COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - |
| MIDDLESEX COUNTY: TOTAL | 43 | 32 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1 | 3 | 31 | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 33 | 25 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | 25 | 1 | - | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | 5 | - | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| NORFOLK COUNTY: TOTAL | 18 | 16 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 4 | 9 | 1 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 12 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | 8 | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | - | 1 | - | - | - | - | - | - |
| PLYMOUTH COUNTY: TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 6 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 6 | 1 | - | - | - | - | - | - | - |
| SUFFOLK COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WORCESTER COUNTY: TOTAL | 13 | 11 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 11 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 10 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

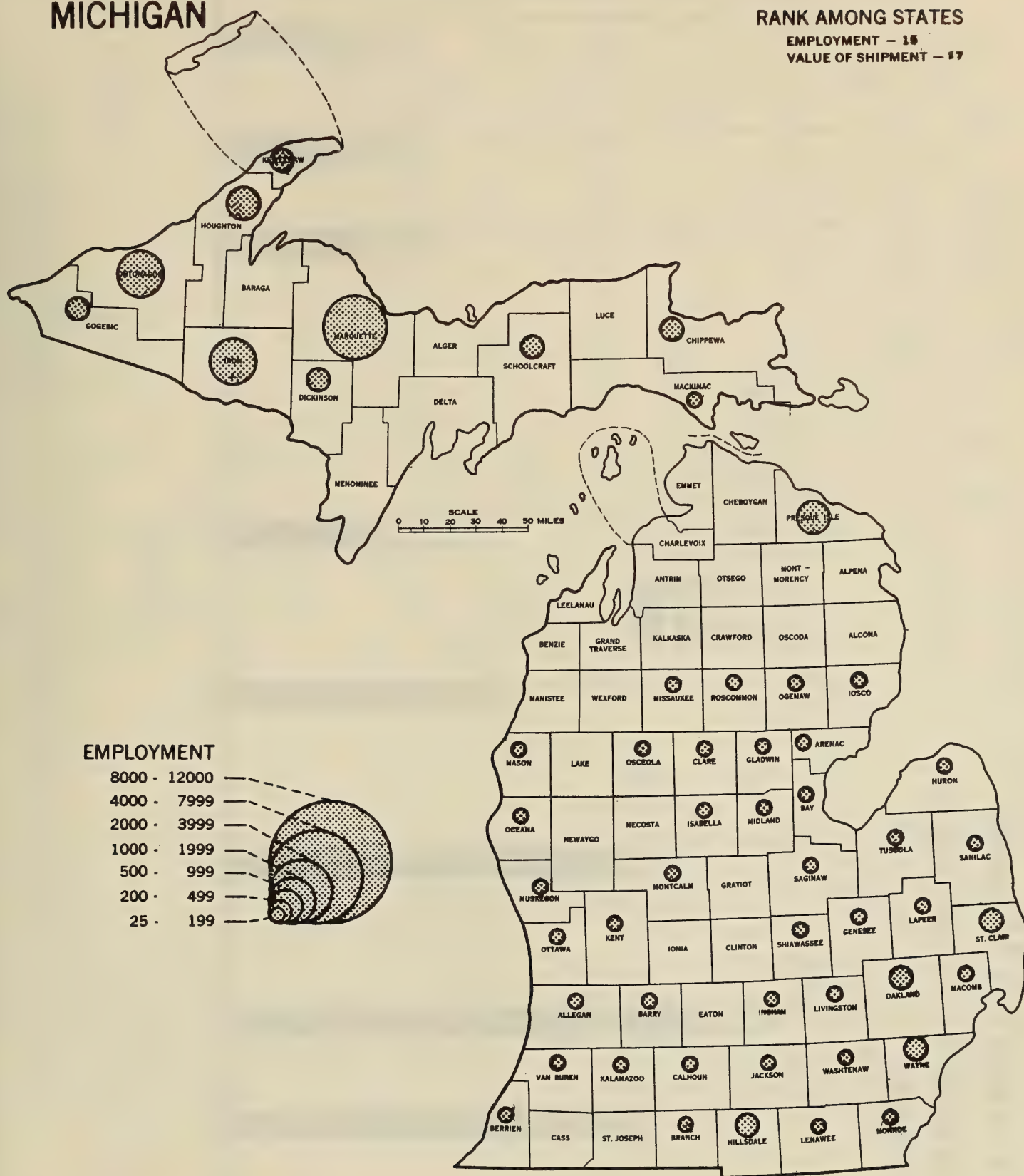
(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

MICHIGAN

EMPLOYMENT - 15
VALUE OF SHIPMENT - 17

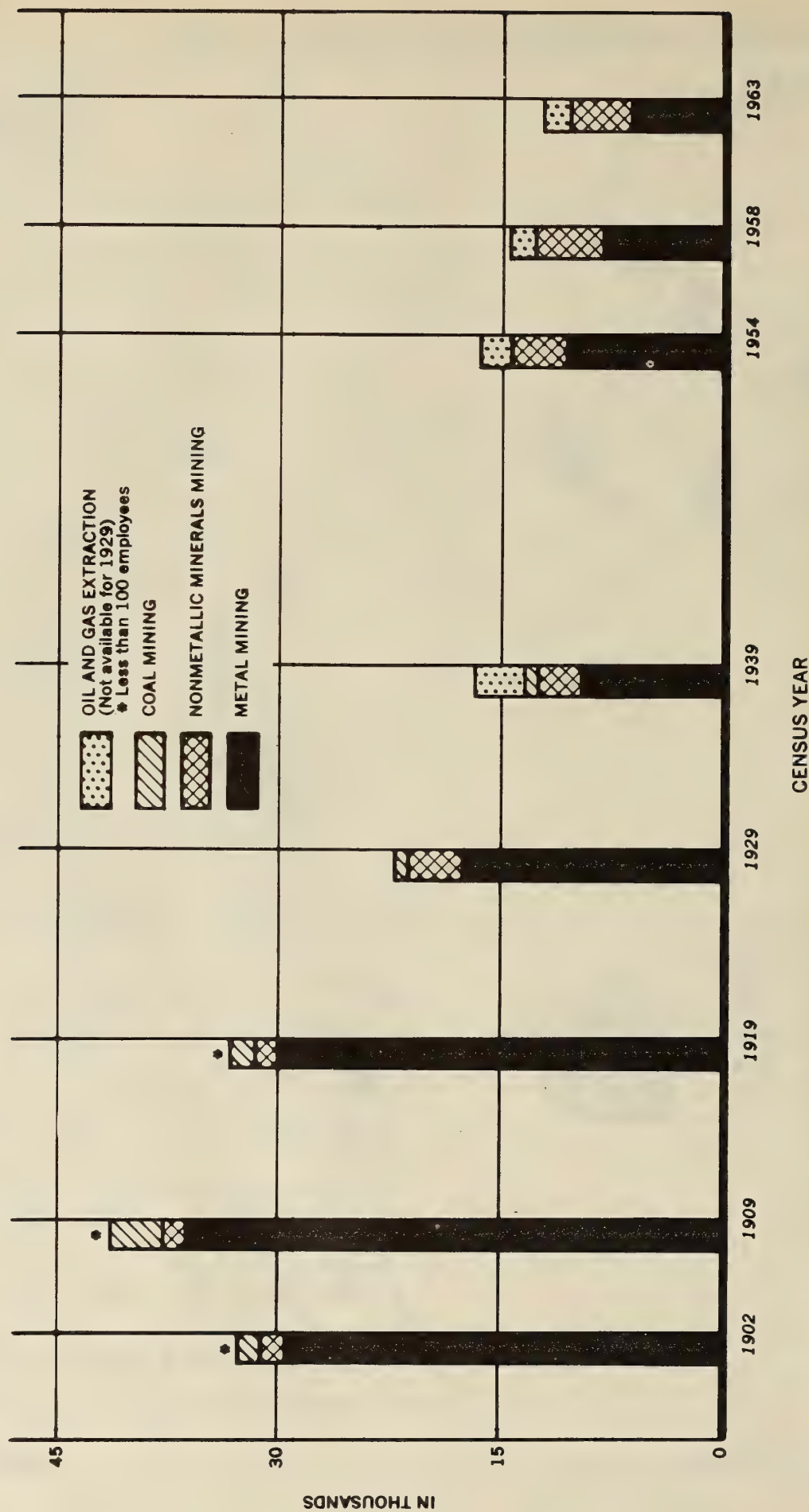


BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MICHIGAN



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 691 | 78 | 12 155 | 75 215 | 10 137 | 19 905 | 59 488 | 223 052 | |
| 1958. | 539 | 87 | 14 326 | 73 218 | 11 365 | 22 065 | 59 292 | 153 001 | |
| 1954. | 567 | 94 | 16 431 | 76 316 | 13 729 | 23 233 | 61 134 | 149 074 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 742 | 33 | 12 448 | 76 736 | 10 427 | 20 485 | 60 996 | 232 724 | |
| 1958. | 574 | 91 | 14 672 | 74 712 | 12 210 | 22 699 | 60 732 | 165 464 | |
| 1954 ¹ . | 591 | 93 | 16 693 | 77 342 | 13 991 | 23 762 | 62 160 | 153 036 | |
| 1939. | ² 620 | (NA) | 17 032 | 23 943 | 15 223 | 23 951 | 19 677 | 64 933 | |
| 1919 ³ . | 123 | (NA) | 33 453 | 55 107 | 31 537 | (NA) | 50 750 | 79 333 | |
| 1909 ³ . | 133 | (NA) | 41 593 | 30 415 | 39 979 | (NA) | 23 147 | 52 959 | |
| 1902 ⁴ . | ² 196 | (NA) | 32 909 | 21 569 | ⁵ 31 366 | (NA) | 19 790 | 39 107 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 451 | 63 | 10 529 | 65 414 | 8 874 | 17 488 | 52 158 | 172 633 | |
| 1958. | 380 | 71 | 12 944 | 65 947 | 10 734 | 19 663 | 53 904 | 141 694 | |
| 1954 ¹ . | 329 | 77 | 14 539 | 67 345 | 12 154 | 25 018 | 54 165 | 122 063 | |
| 1939. | ² 187 | (NA) | 13 519 | 13 639 | 12 421 | 23 999 | 15 942 | 42 601 | |
| 1929 ⁶ . | 161 | (NA) | 22 316 | 32 673 | 20 379 | (NA) | 23 336 | 72 241 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁷ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 63 613 | 30 701 | 59 652 | 15 489 | 316 375 | 76 137 | 6 470 | 638 | 1 315 |
| 1958. | 43 939 | 15 783 | 17 070 | 8 450 | 213 308 | 24 985 | 4 304 | 363 | (NA) |
| 1954. | 41 305 | ⁸ 6 922 | 20 116 | 23 513 | 194 668 | 46 762 | 3 668 | 267 | 940 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ⁹ 65 035 | 30 701 | ⁹ 59 652 | ¹⁰ 15 439 | 327 464 | ¹⁰ 76 137 | ¹⁰ 6 470 | ¹⁰ 633 | ¹⁰ 1 315 |
| 1958. | ⁹ 45 504 | 15 733 | ⁹ 17 070 | ¹⁰ 8 450 | 227 236 | ¹⁰ 24 985 | ¹⁰ 4 304 | 352 | (NA) |
| 1954 ¹ . | ⁹ 42 609 | ⁸ 6 922 | ⁹ 20 116 | ¹⁰ 23 520 | 199 440 | ¹⁰ 46 763 | ¹⁰ 3 669 | 262 | ¹⁰ 942 |
| 1939. | 12 162 | (NA) | 3 509 | (NA) | 80 604 | (NA) | 4 525 | 297 | 435 |
| 1919 ³ . | 24 002 | - | 35 | (NA) | 103 370 | (NA) | ¹¹ 10 779 | 342 | 341 |
| 1909 ³ . | 14 243 | - | 512 | (NA) | 67 714 | (NA) | (NA) | (NA) | 279 |
| 1902 ⁴ . | ³ 839 | (NA) | 77 | (NA) | 43 023 | (NA) | (NA) | (NA) | 205 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ⁹ 1275 618 | (¹²) | ⁹ 47 076 | ¹⁰ 12 335 | 245 004 | ¹⁰ 63 153 | ¹⁰ 5 333 | 601 | ¹⁰ 1 079 |
| 1958. | ⁹ 38 913 | 15 425 | ⁹ 12 050 | ¹⁰ 6 965 | 193 370 | ¹⁰ 21 532 | ¹⁰ 3 521 | 327 | (NA) |
| 1954 ¹ . | ⁹ 54 013 | 6 333 | ⁹ 12 424 | ¹⁰ 19 511 | 156 207 | ¹⁰ 38 692 | ¹⁰ 2 892 | 238 | 786 |
| 1939. | 10 596 | (NA) | 134 | (NA) | 53 381 | (NA) | 3 376 | 272 | 373 |
| 1929 ⁶ . | 22 942 | (NA) | 79 | 3 267 | 95 262 | (NA) | 7 947 | 381 | 396 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

³Excludes data for sand, gravel, common clay, and shale operations, and for limestone quarries operated as parts of cement and lime plants. In 1939, the value of products of such establishments was \$3,528 thousand.

⁴Excludes data for sand, gravel, common clay, and shale operations, and for stone quarries operated as parts of cement plants producing cement valued at \$2,134 thousand. Includes data for lime plants producing lime valued at \$208 thousand.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶Excludes data for common clay and shale mining operations. In 1939, there were 12 such mines, with products valued at \$201 thousand. For each of the census years 1919, 1909, and 1902, only one oil and gas extraction establishment was reported; hence, the figures shown for years for "All operations" were also approximately comparable to the figures shown for later years for "Excluding oil and gas extraction industries."

⁷For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁸Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

⁹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For dimension stone in manufacturers in 1963 and 1958, the cost of contract work and purchased machinery installed minus capital expenditures was also included.

¹⁰Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments and for 1963 and 1958, for dimension stone operations in manufacturers.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 2 percent of the total kwh equivalent of energy used.

¹²Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resales, and purchased fuels and electric energy.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|-------------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 742 | 93 | 12 449 | 76 736 | 10 427 | 20 485 | 60 996 |
| | MINERAL INDUSTRIES | 691 | 79 | 12 155 | 75 215 | 10 137 | 19 905 | 59 488 |
| | INCLUDED IN MANUFACTURES | 51 | 5 | ¹ 293 | ¹ 1 521 | ¹ 290 | 580 | 1 509 |
| 10 | METAL MINING | 32 | 27 | 8 279 | 51 695 | 5 474 | 10 626 | 33 103 |
| 13 | OIL AND GAS EXTRACTION | 291 | 20 | | | | | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 209 | 15 | ² 1 092 | ² 6 730 | 790 | 1 636 | 4 634 |
| 138 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 42 | 4 | 592 | 3 347 | 569 | 965 | 3 224 |
| 14 | NONMETALLIC MINERALS MINING. | 419 | 36 | 4 170 | 25 041 | 3 400 | 6 862 | 19 055 |
| | MINERAL INDUSTRIES | 369 | 31 | 3 877 | 23 520 | 3 110 | 6 282 | 17 547 |
| | INCLUDED IN MANUFACTURES | 51 | 5 | ¹ 293 | ¹ 1 521 | ¹ 290 | 580 | 1 509 |
| 142 | CRUSHED AND BROKEN STONE | 52 | 9 | 1 473 | 9 331 | 1 223 | 2 254 | 6 931 |
| | MINERAL INDUSTRY | 44 | 6 | 1 364 | 8 690 | 1 119 | 2 035 | 6 290 |
| | INCLUDED IN MANUFACTURES | 8 | 3 | ¹ 109 | ¹ 641 | ¹ 109 | 219 | 641 |
| | CRUSHED AND BROKEN LIMESTONE | 48 | 9 | ¹ 1 451 | ¹ 9 289 | ¹ 1 206 | 2 221 | 6 888 |
| 144 | SAND AND GRAVEL. | 308 | 20 | 1 997 | 11 562 | 1 545 | 3 227 | 9 645 |
| | MINERAL INDUSTRY | 284 | 18 | 1 915 | 11 163 | 1 463 | 3 053 | 9 246 |
| | INCLUDED IN MANUFACTURES | 24 | 2 | 92 | 399 | 82 | 164 | 399 |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY. | 271 | 16 | 1 713 | 9 696 | 1 313 | 2 656 | 7 244 |
| | INDUSTRIAL SAND SUBINDUSTRIES ³ . . . | 13 | 2 | 202 | 1 467 | 150 | 407 | 1 002 |
| 145 | CLAY AND RELATED MINERALS, N.E.C.. . | 14 | 1 | ¹ 85 | ¹ 484 | ¹ 85 | 171 | 494 |
| Code | Industry group and industry | 1963—Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 232 724 | ⁴ 170 877 | ¹ 327 464 | (NA) | 14 672 | 165 464 | |
| | MINERAL INDUSTRIES | 223 052 | 169 460 | 316 375 | 76 137 | 14 326 | 158 001 | |
| | INCLUDED IN MANUFACTURES | 9 672 | ⁴ 1 417 | ¹ 11 089 | (NA) | ¹ 346 | 7 463 | |
| 10 | METAL MINING | 99 651 | 112 946 | 155 941 | 56 756 | 8 291 | 79 991 | |
| 13 | OIL AND GAS EXTRACTION | 60 091 | 35 348 | 82 460 | 12 979 | 1 728 | 23 770 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 47 916 | 15 209 | 54 852 | 8 272 | 1 032 | 17 905 | |
| 138 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 8 061 | 3 028 | 10 263 | 826 | (NA) | (NA) | |
| 14 | NONMETALLIC MINERALS MINING. | 72 982 | ⁴ 22 583 | ¹ 89 163 | (NA) | 4 653 | 62 703 | |
| | MINERAL INDUSTRIES | 63 310 | 211 662 | 78 074 | 6 402 | 4 307 | 55 240 | |
| | INCLUDED IN MANUFACTURES | 9 672 | ⁴ 1 417 | ¹ 11 089 | (NA) | ¹ 346 | 7 463 | |
| 142 | CRUSHED AND BROKEN STONE | 28 483 | ⁴ 6 585 | ¹ 33 439 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY | 23 336 | 5 851 | 27 558 | 1 629 | 1 615 | 18 444 | |
| | INCLUDED IN MANUFACTURES | 5 147 | ⁴ 734 | 15 881 | (NA) | (NA) | (NA) | |
| | CRUSHED AND BROKEN LIMESTONE | 28 410 | ⁴ 6 570 | ¹ 33 379 | (NA) | (NA) | (NA) | |
| 144 | SAND AND GRAVEL. | 30 397 | 11 560 | 38 087 | (NA) | 2 168 | 28 431 | |
| | MINERAL INDUSTRY | 27 996 | 11 294 | 35 420 | 3 870 | 2 102 | 26 024 | |
| | INCLUDED IN MANUFACTURES | 2 401 | 266 | 2 667 | (NA) | 66 | 2 407 | |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY. | 23 173 | 9 856 | 29 931 | 3 098 | ⁵ 1 990 | ⁵ 23 714 | |
| | INDUSTRIAL SAND SUBINDUSTRIES ³ . . . | 4 823 | 1 438 | 5 489 | 772 | ⁵ 112 | ⁵ 2 310 | |
| 145 | CLAY AND RELATED MINERALS, N.E.C.. . | 1 710 | 1 068 | 2 821 | (NA) | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Includes figures for separately reported central offices and related facilities in Wisconsin.³Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C. Subindustries.⁴For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed. For Dimension stone only, includes cost of purchased machinery installed minus capital expenditures.⁵Figures for the Industrial Sand, N.E.C. Subindustry are included with those for the Construction Sand and Gravel Subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES . | 169 460 | 63 618 | 30 701 | 59 652 | 15 489 | 76 137 | 10 661 | 65 476 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING | 112 946 | ³ 59 730 | (³) | 44 642 | 8 574 | 56 756 | 7 373 | 49 383 | (x) | (x) | (x) | (x) |
| 13 | OIL AND GAS EXTRACTION . . . | 35 348 | ² 20 118 | (³) | 12 576 | 2 654 | 12 979 | 3 214 | 9 765 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 15 208 | 4 861 | — | 8 335 | 2 012 | 8 272 | 3 151 | 3 151 | (x) | 54 775 | (x) | 661 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 3 028 | 2 041 | — | 476 | 511 | 826 | 63 | 763 | (x) | ⁴ 10 260 | (x) | (⁴) |
| 14 | NONMETALLIC MINERALS MINING. | 21 166 | 14 245 | 226 | 2 434 | 4 261 | 6 402 | 74 | 6 328 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . | 5 851 | 4 603 | — | 205 | 1 043 | 1 629 | 31 | 1 598 | 24 978 | 26 880 | ⁵ 4 882 | ⁵ 5 976 |
| 1441 | SAND AND GRAVEL | 11 294 | 6 880 | 226 | 1 765 | 2 423 | 3 870 | 40 | 3 830 | 34 711 | ⁶ 36 752 | ⁷ 1 491 | (⁶) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. . . | 9 856 | 5 869 | 226 | 1 760 | 2 001 | 3 098 | 39 | 3 059 | 31 334 | ⁶ 30 485 | ⁸ 1 123 | (⁶) |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. | 2 210 | 1 503 | — | 295 | 412 | 582 | 2 | 580 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. ¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁵Includes figures for stone produced and used in the same establishment in making cement. The value of such stone was estimated. Excludes stone produced and used in the same establishment in making ready-mixed concrete.

⁶Figures for the value of shipments of primary products by establishments classified in other industries or subindustries are included with those for the value of shipments of primary products by establishments classified in the specified industry or subindustry. See also footnote 7.

⁷Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.

⁸Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 10 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 611 | 569 | 257 | 17 | 69 | 171 | 303 | 5 | 287 | 11 | 9 | 42 |
| | NUMBER OF EMPLOYEES..... | 10 889 | 10 708 | 4 004 | 2 723 | 236 | 1 045 | 6 363 | (D) | 4 217 | (D) | 341 | 181 |
| | VALUE ADDED IN MINING.....\$1,000.. | 216 031 | 214 903 | 95 204 | 44 222 | 2 997 | 47 985 | 112 805 | (D) | 90 158 | (D) | 6 894 | 1 128 |
| 13 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 30 | 28 | 17 | 16 | 1 | - | 8 | 3 | 5 | - | 3 | 2 |
| | NUMBER OF EMPLOYEES..... | 6 103 | (D) | (D) | (D) | (D) | - | (D) | (D) | (D) | - | 287 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 102 399 | (D) | (D) | (D) | (D) | - | (D) | (D) | (D) | - | 4 541 | (D) |
| 14 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 215 | 177 | 171 | - | - | 171 | - | - | - | - | 6 | 38 |
| | NUMBER OF EMPLOYEES..... | 1 140 | 1 099 | 1 045 | - | - | 1 045 | - | - | - | - | 54 | 41 |
| | VALUE ADDED IN MINING.....\$1,000.. | 50 377 | 50 338 | 47 985 | - | - | 47 985 | - | - | - | - | 2 353 | 39 |
| 142 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 366 | 364 | 69 | 1 | 68 | - | 295 | 2 | 282 | 11 | - | 2 |
| | NUMBER OF EMPLOYEES..... | 3 646 | (D) | (D) | (D) | (D) | - | (D) | (D) | 3 083 | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 63 255 | (D) | (D) | (D) | (D) | - | (D) | (D) | 53 029 | (D) | - | (D) |
| 144 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 44 | 44 | 1 | - | 1 | - | 43 | 1 | 42 | - | - | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | - | - |
| 149 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 284 | 283 | 48 | - | 48 | - | 235 | - | 225 | 10 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 1 819 | (D) | (D) | - | (D) | - | 1 685 | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 27 996 | (D) | (D) | - | (D) | - | 26 781 | - | (D) | (D) | - | (D) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 31 | 30 | 15 | 1 | 14 | - | 15 | - | 14 | 1 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 341 | (D) | 82 | (D) | (D) | - | (D) | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 424 | (D) | 1 305 | (D) | (D) | - | (D) | - | (D) | (D) | - | (D) |

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 742 | 83 | 12 448 | 76 736 | 10 427 | 20 485 | 60 996 | 232 724 | 170 877 | 327 464 | (NA) | 14 672 | 165 464 |
| | MINERAL INDUSTRIES. | 691 | 78 | 12 155 | 75 215 | 10 137 | 19 905 | 59 488 | 223 052 | 169 460 | 316 375 | 76 137 | 14 326 | 158 001 |
| | INCLUDED IN MANUFACTURES ² | 51 | 5 | 293 | 1 521 | 290 | 580 | 1 508 | 9 672 | 1 417 | 11 089 | (NA) | 346 | 7 463 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALLEGAN COUNTY, TOTAL. | 29 | 2 | 135 | 1 008 | 98 | 193 | 656 | 1 413 | 470 | 1 770 | 113 | 230 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 16 | 1 | 72 | 483 | 37 | 73 | 221 | 740 | 142 | 806 | 76 | 44 | (NA) |
| | ARENAC COUNTY, TOTAL. | 24 | - | 43 | 184 | 40 | 82 | 155 | 759 | 192 | 931 | 20 | 86 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | - | 27 | 139 | 24 | 51 | 110 | 675 | 168 | 831 | 12 | 68 | (NA) |
| | BARRY COUNTY, TOTAL. | 11 | - | 41 | 230 | 33 | 60 | 205 | 360 | 287 | 606 | 41 | 17 | (NA) |
| | BAY COUNTY, TOTAL. | 17 | - | 40 | 210 | 33 | 75 | 162 | 683 | 223 | 871 | 35 | 90 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | - | 25 | 148 | 19 | 46 | 104 | 532 | 169 | 686 | 15 | (NA) | (NA) |
| | BERRIEN COUNTY, TOTAL. | 10 | - | 56 | 205 | 23 | 44 | 100 | 435 | 125 | 535 | 25 | 61 | 380 |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 7 | - | 24 | 104 | 23 | 44 | 100 | 431 | 122 | 528 | 25 | (NA) | (NA) |
| | BRANCH COUNTY, TOTAL. | 8 | 1 | 31 | 167 | 24 | 40 | 128 | 588 | 606 | 1 128 | 66 | 9 | (NA) |
| | CALHOUN COUNTY, TOTAL. | 36 | - | 104 | 725 | 87 | 183 | 572 | 8 777 | 1 837 | 10 286 | 328 | 11 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 31 | - | 94 | 668 | 78 | 163 | 519 | 8 664 | 1 771 | 10 125 | 310 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 13 | - | 28 | 200 | 18 | 34 | 108 | 7 695 | 987 | 8 416 | 266 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 18 | - | 66 | 468 | 60 | 129 | 411 | 969 | 784 | 1 709 | 44 | (NA) | (NA) |
| | CLARE COUNTY, TOTAL. | 21 | - | 58 | 328 | 47 | 90 | 254 | 1 381 | 461 | 1 749 | 93 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 13 | - | 34 | 211 | 27 | 50 | 156 | 1 256 | 439 | 1 608 | 87 | 63 | (NA) |
| | CRAWFORD COUNTY, TOTAL. | 6 | - | 11 | 76 | 9 | 23 | 58 | 286 | 380 | 656 | 10 | (NA) | (NA) |
| | GENESEE COUNTY, TOTAL. | 22 | - | 40 | 165 | 34 | 74 | 136 | 1 265 | 253 | 1 440 | 78 | 30 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 12 | - | 3 | 9 | 3 | 6 | 8 | 870 | 157 | 1 017 | 10 | (NA) | (NA) |
| | GLADWIN COUNTY, TOTAL. | 29 | 1 | 75 | 440 | 69 | 140 | 389 | 1 068 | 612 | 1 592 | 88 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 20 | 1 | 63 | 410 | 57 | 117 | 360 | 1 013 | 586 | 1 527 | 72 | 76 | (NA) |
| | HILLSDALE COUNTY, TOTAL. | 55 | 2 | 233 | 1 362 | 168 | 322 | 929 | 12 641 | 5 961 | 17 224 | 1 378 | 93 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 46 | 2 | 228 | 1 343 | 163 | 312 | 910 | 12 618 | 5 916 | 17 161 | 1 373 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 23 | 1 | 78 | 393 | 48 | 95 | 250 | 8 179 | 2 387 | 9 632 | 934 | (NA) | (NA) |
| | INGHAM COUNTY, TOTAL. | 17 | - | 74 | 457 | 53 | 109 | 291 | 1 127 | 797 | 1 559 | 365 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 13 | - | 71 | 426 | 53 | 109 | 291 | 979 | 760 | 1 434 | 305 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 13 | - | 71 | 426 | 53 | 109 | 291 | 979 | 760 | 1 434 | 305 | 40 | 619 |
| | IOSCO COUNTY, TOTAL. | 5 | 2 | 140 | 755 | 123 | 235 | 620 | 3 318 | 852 | 3 817 | 353 | 181 | 3 858 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 2 | 140 | 755 | 123 | 235 | 620 | 3 318 | 852 | 3 817 | 353 | (NA) | (NA) |
| | IRON COUNTY, TOTAL. | 9 | 6 | 1 045 | 7 633 | 870 | 1 597 | 6 026 | 20 421 | 3 640 | 23 138 | 923 | (NA) | (NA) |
| 10 | METAL MINING. | 9 | 6 | 992 | 7 147 | 870 | 1 597 | 6 026 | 20 421 | 3 640 | 23 138 | 923 | 1 530 | 22 875 |
| | ISABELLA COUNTY, TOTAL. | 26 | 1 | 111 | 430 | 101 | 169 | 365 | 1 819 | 606 | 2 191 | 234 | 293 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | - | 40 | 214 | 31 | 76 | 157 | 1 237 | 275 | 1 381 | 131 | 135 | (NA) |
| | JACKSON COUNTY, TOTAL. | 43 | - | 119 | 707 | 94 | 197 | 534 | 6 133 | 1 612 | 7 270 | 475 | 59 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 32 | - | 76 | 482 | 56 | 117 | 323 | 5 548 | 1 330 | 6 461 | 417 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | - | 56 | 379 | 37 | 78 | 237 | 5 300 | 1 222 | 6 132 | 390 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 11 | - | 43 | 225 | 38 | 80 | 211 | 585 | 282 | 809 | 58 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 6 | - | 32 | 172 | 28 | 60 | 162 | 483 | 248 | 680 | 51 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | COUNTIES--CONTINUED | | | | | | | | | | | | | |
| 14 | KALAMAZOO COUNTY, TOTAL | 16 | 1 | 56 | 218 | 48 | 99 | 187 | 633 | 244 | 820 | 57 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 13 | 1 | 47 | 185 | 40 | 83 | 158 | 548 | 213 | 714 | 47 | (NA) | (NA) |
| | KENT COUNTY, TOTAL | 35 | - | 171 | 1 523 | 97 | 195 | 601 | 2 283 | 616 | 2 692 | 207 | 123 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | - | 44 | 295 | 26 | 50 | 143 | 751 | 196 | 846 | 101 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 16 | - | 36 | 262 | 19 | 36 | 114 | 678 | 166 | 750 | 94 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 14 | - | 86 | 506 | 71 | 145 | 458 | 1 532 | 420 | 1 846 | 106 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 11 | - | 83 | 496 | 68 | 139 | 448 | 1 509 | 414 | 1 828 | 95 | 59 | 1 084 |
| | LAPEER COUNTY, TOTAL | 10 | 1 | 69 | 235 | 64 | 158 | 222 | 1 372 | 595 | 1 880 | 87 | (NA) | (NA) |
| | LENAWEE COUNTY, TOTAL. | 23 | - | 62 | 331 | 57 | 103 | 314 | 528 | 340 | 720 | 148 | 13 | 95 |
| | MACOMB COUNTY, TOTAL | 35 | 1 | 141 | 905 | 114 | 259 | 715 | 5 070 | 1 592 | 4 814 | 1 848 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 20 | - | 42 | 267 | 34 | 75 | 202 | 2 782 | 1 016 | 2 443 | 1 355 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 13 | - | 21 | 142 | 13 | 25 | 82 | 2 452 | 816 | 1 964 | 1 304 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 15 | 1 | 99 | 638 | 80 | 184 | 513 | 2 288 | 576 | 2 371 | 493 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 15 | 1 | 99 | 638 | 80 | 184 | 513 | 2 288 | 576 | 2 371 | 493 | 101 | 1 254 |
| | MASON COUNTY, TOTAL. | 15 | 1 | 43 | 271 | 40 | 95 | 246 | 645 | 526 | 1 093 | 78 | 45 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 7 | 1 | 34 | 207 | 31 | 77 | 187 | 566 | 486 | 983 | 69 | (NA) | (NA) |
| | MIDLAND COUNTY, TOTAL. | 16 | 1 | 77 | 437 | 72 | 145 | 414 | 627 | 243 | 777 | 93 | 72 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 16 | 1 | 77 | 437 | 72 | 145 | 414 | 627 | 243 | 777 | 93 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 13 | 1 | 73 | 416 | 68 | 138 | 395 | 578 | 238 | 724 | 92 | (NA) | (NA) |
| | MISSAUKEE COUNTY, TOTAL. | 9 | 1 | 44 | 317 | 43 | 84 | 307 | 1 011 | 245 | 1 200 | 56 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 9 | 1 | 44 | 317 | 43 | 84 | 307 | 1 011 | 245 | 1 200 | 56 | (NA) | (NA) |
| | MONTCALM COUNTY, TOTAL | 18 | - | 45 | 195 | 40 | 83 | 171 | 1 065 | 290 | 1 316 | 39 | 69 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 12 | - | 21 | 92 | 17 | 34 | 71 | 952 | 184 | 1 100 | 36 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 8 | - | 18 | 76 | 14 | 28 | 55 | 754 | 156 | 874 | 36 | 36 | (NA) |
| | MUSKEGON COUNTY, TOTAL | 12 | - | 40 | 268 | 24 | 56 | 134 | 1 026 | 231 | 1 181 | 76 | 97 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | - | 31 | 237 | 21 | 51 | 122 | 991 | 197 | 1 123 | 65 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 5 | - | 31 | 237 | 21 | 51 | 122 | 991 | 197 | 1 123 | 65 | (NA) | (NA) |
| | OAKLAND COUNTY, TOTAL. | 37 | 5 | 398 | 2 540 | 285 | 604 | 1 510 | 5 400 | 2 258 | 6 927 | 731 | 354 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 32 | 5 | 327 | 1 758 | 280 | 594 | 1 476 | 4 988 | 2 129 | 6 504 | 613 | (NA) | (NA) |
| | OCEANA COUNTY, TOTAL | 13 | - | 33 | 189 | 27 | 55 | 137 | 740 | 252 | 964 | 28 | 39 | (NA) |
| | OGEMAW COUNTY, TOTAL | 22 | - | 31 | 193 | 23 | 47 | 116 | 666 | 516 | 837 | 345 | 52 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 22 | - | 31 | 193 | 23 | 47 | 116 | 666 | 516 | 837 | 345 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 17 | - | 30 | 185 | 22 | 45 | 109 | 671 | 480 | 808 | 343 | (NA) | (NA) |
| | OSCEOLA COUNTY, TOTAL. | 20 | - | 30 | 154 | 29 | 56 | 141 | 1 115 | 229 | 1 127 | 217 | 125 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 11 | - | 5 | 25 | 5 | 8 | 17 | 809 | 111 | 733 | 187 | 74 | (NA) |
| | OTTAWA COUNTY, TOTAL | 23 | - | 77 | 432 | 70 | 123 | 381 | 1 152 | 346 | 1 328 | 170 | 196 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 15 | - | 47 | 233 | 42 | 68 | 207 | 446 | 166 | 546 | 66 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | - | 30 | 199 | 28 | 55 | 174 | 706 | 180 | 782 | 104 | 164 | 1 494 |
| | ROSCOMMON COUNTY, TOTAL. | 9 | - | 49 | 323 | 43 | 90 | 286 | 927 | 264 | 1 128 | 63 | 54 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 3 | - | 38 | 273 | 34 | 71 | 243 | 836 | 221 | 996 | 61 | (NA) | (NA) |
| | SAGINAW COUNTY, TOTAL. | 10 | 1 | 73 | 531 | 53 | 168 | 362 | 1 059 | 360 | 1 324 | 95 | (NA) | (NA) |
| | ST CLAIR COUNTY, TOTAL | 46 | 5 | 329 | 1 832 | 279 | 543 | 1 544 | 11 191 | 8 999 | 16 336 | 3 854 | 152 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 21 | 1 | 85 | 501 | 53 | 97 | 291 | 6 472 | 1 854 | 5 914 | 2 412 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|------------------|--|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | COUNTIES--CONTINUED | | | | | | | | | | | | | |
| 14 | SANILAC COUNTY, TOTAL. | 12 | 1 | 76 | 252 | 70 | 115 | 235 | 419 | 420 | 684 | 155 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 7 | 1 | 59 | 127 | 53 | 77 | 111 | 399 | 324 | 674 | 49 | 12 | 152 |
| 14 | TUSCOLA COUNTY, TOTAL. | 20 | - | 65 | 303 | 56 | 122 | 232 | 857 | 498 | 1 218 | 137 | 108 | 1 546 |
| | NONMETALLIC MINERALS MINING. | 12 | - | 44 | 213 | 39 | 90 | 165 | 549 | 388 | 854 | 83 | 83 | (NA) |
| 13 14 144 | WASHTENAW COUNTY, TOTAL. | 20 | 1 | 126 | 831 | 71 | 145 | 438 | 1 452 | 8 508 | 7 151 | 2 809 | 98 | (NA) |
| | OIL AND GAS EXTRACTION | 11 | - | 51 | 342 | 32 | 55 | 196 | 673 | 8 286 | 6 236 | 2 723 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 9 | 1 | 75 | 489 | 39 | 90 | 242 | 779 | 222 | 915 | 86 | (NA) | (NA) |
| | SAND AND GRAVEL. | 9 | 1 | 75 | 489 | 39 | 90 | 242 | 779 | 222 | 915 | 86 | 95 | 1 011 |
| 13 14 | WAYNE COUNTY, TOTAL. | 29 | 4 | 444 | 3 723 | 349 | 825 | 2 755 | 10 421 | 3 285 | 12 311 | 1 395 | 634 | (NA) |
| | OIL AND GAS EXTRACTION | 8 | - | 26 | 169 | 24 | 37 | 151 | 758 | 302 | 823 | 237 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 21 | 4 | 393 | 3 286 | 325 | 788 | 2 604 | 9 663 | 2 983 | 11 488 | 1 158 | 617 | 8 455 |
| | UNDISTRIBUTED, TOTAL. | 39 | 1 | 106 | 641 | 81 | 169 | 491 | 1 315 | 693 | 1 773 | 235 | (NA) | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 39 | 1 | 106 | 641 | 81 | 169 | 491 | 1 315 | 693 | 1 773 | 235 | 104 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. | 20 | 1 | 76 | 494 | 55 | 118 | 382 | 930 | 564 | 1 288 | 206 | 26 | (NA) |
| | OIL AND GAS FIELD SERVICES | 19 | - | 30 | 147 | 26 | 51 | 109 | 385 | 129 | 485 | 29 | 78 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 4.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|---|
| | Total | Classified in mineral industries ² | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| MICHIGAN, TOTAL | 742 | 691 | 51 | 23 | 7 | - | - | - | - | 2 | - | - | - | - | - | 209 | 6 | 76 | 4 | 4 | 44 | 8 | 284 | 24 | 3 | 1 | 13 | 2 | 2 | 31 | 2 |
| NO EMPLOYEES | 167 | 163 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 84 | 1 | 9 | - | 21 | - | 39 | 16 | - | - | 1 | - | - | 9 | - | |
| 1-4 EMPLOYEES | 318 | 288 | 30 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | 76 | 1 | 31 | 2 | 2 | 14 | 4 | 146 | 16 | - | 8 | 1 | 2 | 12 | - | |
| 5-9 EMPLOYEES | 111 | 106 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | 23 | 1 | 20 | 2 | 1 | 1 | - | 55 | 2 | - | 1 | - | - | 3 | 1 | |
| 10-19 EMPLOYEES | 63 | 56 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | 11 | 3 | 11 | - | 1 | 2 | 1 | 26 | 1 | - | 3 | - | - | 2 | 1 | |
| 20-49 EMPLOYEES | 44 | 39 | 5 | 2 | 1 | - | - | - | - | 1 | - | - | - | - | - | 12 | - | 4 | - | - | 2 | 3 | 14 | 2 | 1 | - | - | - | - | - | |
| 50-99 EMPLOYEES | 10 | 10 | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 2 | - | - | - | - | - | - | - | 3 | |
| 100-249 EMPLOYEES | 16 | 16 | - | 8 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 2 | - | - | - | 1 | - | - | - | |
| 250-499 EMPLOYEES | 11 | 11 | - | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| 500-999 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| 1000 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| ALCONA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| ALGER COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| ALLEGAN COUNTY, TOTAL | 31 | 29 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 4 | - | - | 3 | - | 5 | 2 | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | 28 | 27 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 4 | - | - | 3 | - | 4 | 1 | - | - | - | - | 1 | - | |
| 20-99 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| ALPENA COUNTY, TOTAL | 8 | 5 | 3 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | 1 | - | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | 1 | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| ANTRUM COUNTY, TOTAL | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | |
| ARENAC COUNTY, TOTAL | 24 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 5 | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 24 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 5 | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| BARAGA COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| BARRY COUNTY, TOTAL | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | 3 | 1 | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | 3 | 1 | 3 | - | - | - | - | - | - | - | |
| BAY COUNTY, TOTAL | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 3 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 3 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | |
| BERRIEN COUNTY, TOTAL | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | 7 | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | 7 | 1 | - | - | - | - | - | - | |
| BRANCH COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | 1 | - | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| CALHOUN COUNTY, TOTAL | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 18 | - | - | 2 | - | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 18 | - | - | 2 | - | 3 | - | - | - | - | - | - | - | |
| CASS COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | |
| CHARLEVOIX COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| CHEBOYGAN COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | - | - | - | - | - | |
| CHIPPEWA COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| CLARE COUNTY, TOTAL | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 7 | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 7 | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| CLINTON COUNTY, TOTAL | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 7 | 1 | - | 1 | - | 1 | 1 | - | |
| 0-19 EMPLOYEES | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 7 | 1 | - | 1 | - | 1 | 1 | - | |
| CRAWFORD COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| DELTA COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| DICKINSON COUNTY, TOTAL | 6 | 6 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | 2 | - | - | - | - | - | - | - | |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| EATON COUNTY, TOTAL | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | 3 | 2 | - | 1 | - | 1 | 1 | - | |
| 0-19 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | - | 3 | 2 | - | 1 | - | 1 | 1 | - | |
| EMMET COUNTY, TOTAL | 4 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| GENESEE COUNTY, TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 1 | - | - | - | 9 | - | - | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 1 | - | - | - | 9 | - | - | - | - | - | - | 1 | - | |
| GLADWIN COUNTY, TOTAL | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | - | 6 | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | - | 6 | - | - | - | 3 | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | -</ | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| GOGEBIC COUNTY, TOTAL | 3 | 3 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GRAND TRAVERSE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| GRATIOT COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| HILLSDALE COUNTY, TOTAL | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | 1 | 22 | - | - | 3 | - | 6 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 53 | 53 | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | 1 | 21 | - | - | 3 | - | 6 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HOUGHTON COUNTY, TOTAL | 8 | 8 | - | - | 5 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HURON COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| INGHAM COUNTY, TOTAL | 18 | 17 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | 13 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 17 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | 13 | 1 | - | - | - | - | - | - |
| IONIA COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 5 | - | - | - | - | - | - | - |
| IOSCO COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 3 | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - |
| IRON COUNTY, TOTAL | 9 | 9 | - | 8 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ISABELLA COUNTY, TOTAL | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 7 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 6 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| JACKSON COUNTY, TOTAL | 45 | 43 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 15 | 2 | 2 | 2 | - | 6 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 45 | 43 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 15 | 2 | 2 | 2 | - | 6 | - | - | - | - | - | 1 | - |
| KALAMAZOO COUNTY, TOTAL | 17 | 16 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | 4 | - | 7 | 1 | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 16 | 15 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | 4 | - | 6 | 1 | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| KALKASKA COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| KENT COUNTY, TOTAL | 38 | 35 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 5 | - | - | - | 11 | 1 | - | - | - | - | - | 3 | 2 |
| 0-19 EMPLOYEES | 38 | 35 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 5 | - | - | - | 11 | 1 | - | - | - | - | - | 3 | 2 |
| KEWEENAW COUNTY, TOTAL | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LAKE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| LAPEER COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | 1 | - | - | - | - | - | - | 3 | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | 1 | - | - | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| LEELANAU COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| LENAWEE COUNTY, TOTAL | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 9 | - | - | - | 5 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 9 | - | - | - | 5 | - | - | - | - | - | - | 1 | - |
| LIVINGSTON COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in man- u- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 M |
| MASON COUNTY: TOTAL | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 7 | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 7 | - | - | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MECOSTA COUNTY: TOTAL | 17 | 14 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 6 | - | 1 | - | 3 | 3 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 14 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 6 | - | 1 | - | 3 | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| MENOMINEE COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| MIDLAND COUNTY: TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MISSAUKEE COUNTY: TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| MONROE COUNTY: TOTAL | 8 | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | 1 | - | 1 | - | 2 | - | - | 1 | - |
| 0-19 EMPLOYEES | 7 | 3 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | 1 | - | 1 | - | 2 | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MONTCALM COUNTY: TOTAL | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 4 | - | - | - | 5 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 4 | - | - | - | 5 | - | - | - | - | - | 1 | - |
| MUSKEGON COUNTY: TOTAL | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 2 | - | - | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 2 | - | - | - | 5 | - | - | - | - | - | - | - |
| NEWAYGO COUNTY: TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 5 | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 5 | - | 1 | - | 3 | - | - | - | - | - | - | - |
| OAKLAND COUNTY: TOTAL | 38 | 37 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | - | 28 | 1 | - | - | - | - | 3 | - |
| 0-19 EMPLOYEES | 33 | 32 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | - | 23 | 1 | - | - | - | - | 3 | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| OCEANA COUNTY: TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 6 | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 6 | - | - | - | 2 | - | - | - | - | - | - | - |
| OGEMAW COUNTY: TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 5 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 5 | - | - | - | - | - | - | - | - | - | - | - |
| ONTONAGON COUNTY: TOTAL | 3 | 3 | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OSCEOLA COUNTY: TOTAL | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 6 | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 6 | - | 1 | - | 2 | - | - | - | - | - | - | - |
| OTSEGO COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| OTTAWA COUNTY: TOTAL | 24 | 23 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 6 | - | 1 | 1 | 7 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 24 | 23 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 6 | - | 1 | 1 | 7 | - | - | - | - | - | - | - |
| PRESQUE ISLE COUNTY: TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 2 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ROSCOMMON COUNTY: TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | 3 | - | - | - | - | - | - | - |
| SAGINAW COUNTY: TOTAL | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | 1 | 4 | - | - | 1 | - | - | 1 | - |
| 0-19 EMPLOYEES | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | 3 | - | - | 1 | - | - | 1 | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| ST CLAIR COUNTY: TOTAL | 47 | 46 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 21 | 2 | 16 | - | - | - | 5 | - | - | 1 | 1 | - | 1 | - |
| 0-19 EMPLOYEES | 42 | 41 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 20 | 2 | 13 | - | - | - | 5 | - | - | 1 | 1 | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | 1 | - |
| ST JOSEPH COUNTY: TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | - | 3 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | - | 3 | - | - | - | - | - | 1 | - |
| SANILAC COUNTY: TOTAL | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | 4 | - | - | - | - | - | 3 | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | 4 | - | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| SCHOOLCRAFT COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| SHIAWASSEE COUNTY: TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 4 | 1 | - | 1 | - | 1 | - | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 4 | 1 | - | 1 | - | 1 | - | - |
| TUSCOLA COUNTY: TOTAL | 21 | 20 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 2 | - | - | - | 11 | 1 | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 21 | 20 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 2 | - | - | - | 11 | 1 | - | - | - | - | 1 | - |
| VAN BUREN COUNTY: TOTAL | 19 | 18 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 5 | - | 1 | 1 | 6 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 17 | 16 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 5 | - | - | 1 | 4 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WASHTENAW COUNTY, TOTAL | 21 | 20 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 8 | 1 | 2 | – | – | – | – | 9 | 1 | – | – | – | – | – | – |
| 0-19 EMPLOYEES | 20 | 19 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 8 | 1 | 2 | – | – | – | – | 8 | 1 | – | – | – | – | – | – |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – |
| WAYNE COUNTY, TOTAL | 34 | 29 | 5 | – | – | – | – | – | – | – | – | – | – | – | – | 6 | – | 2 | – | – | 2 | – | 15 | 2 | 1 | 3 | 1 | – | 2 | – |
| 0-19 EMPLOYEES | 30 | 25 | 5 | – | – | – | – | – | – | – | – | – | – | – | – | 6 | – | 2 | – | – | 2 | – | 13 | 2 | – | 3 | – | – | 2 | – |
| 20-99 EMPLOYEES | 3 | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 1 | – | – | – | – | – | – |
| 100-249 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – |
| WEXFORD COUNTY, TOTAL | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – |
| 0-19 EMPLOYEES | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – |
| UNDISTRIBUTED, TOTAL | 39 | 39 | – | – | – | – | – | – | – | – | – | – | – | – | – | 20 | – | 19 | – | – | – | – | – | – | – | – | – | – | – | – |
| 0-19 EMPLOYEES | 38 | 38 | – | – | – | – | – | – | – | – | – | – | – | – | – | 19 | – | 19 | – | – | – | – | – | – | – | – | – | – | – | – |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

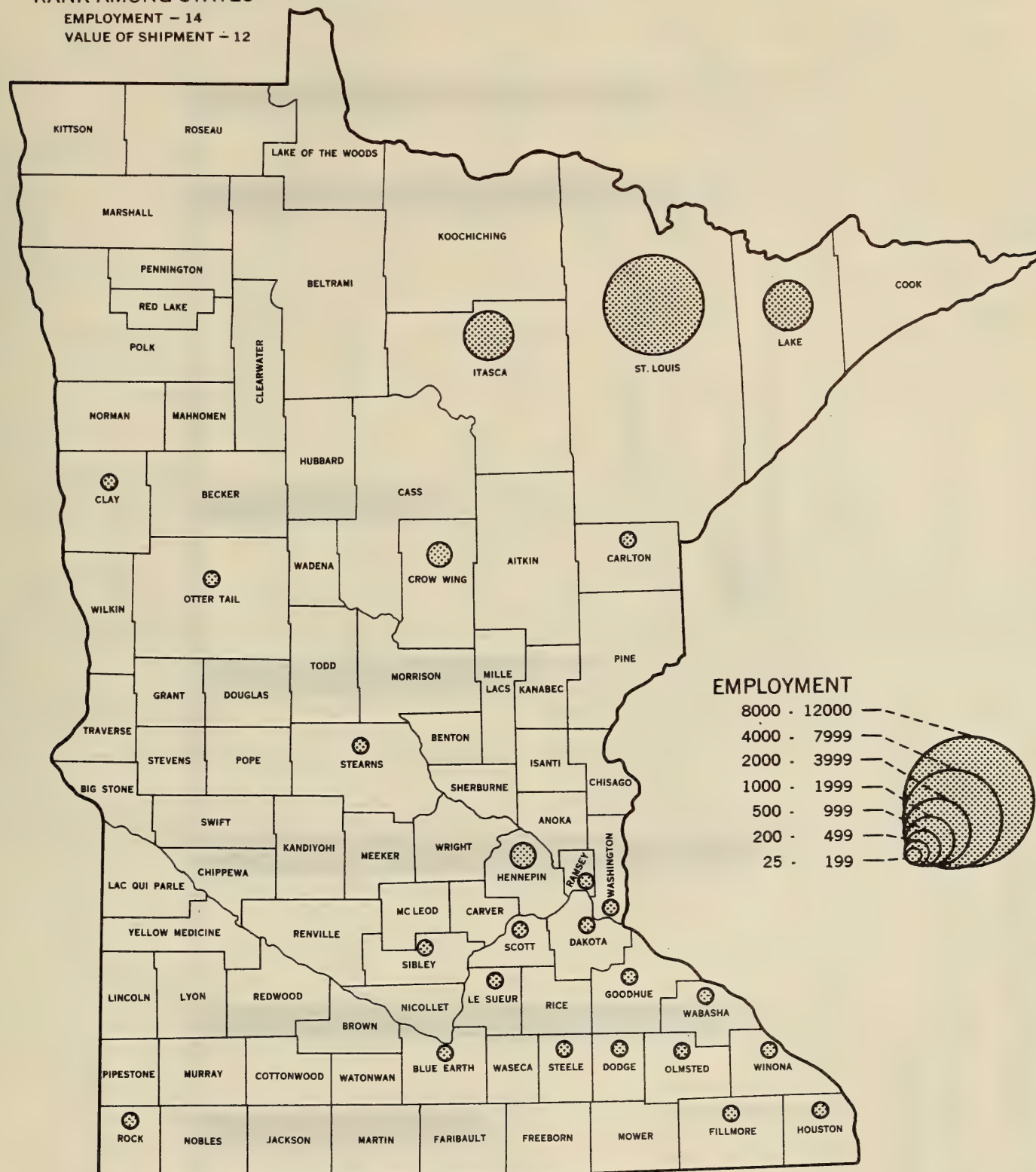
EMPLOYMENT IN MINING BY COUNTY: 1963

MINNESOTA

RANK AMONG STATES

EMPLOYMENT - 14

VALUE OF SHIPMENT - 12



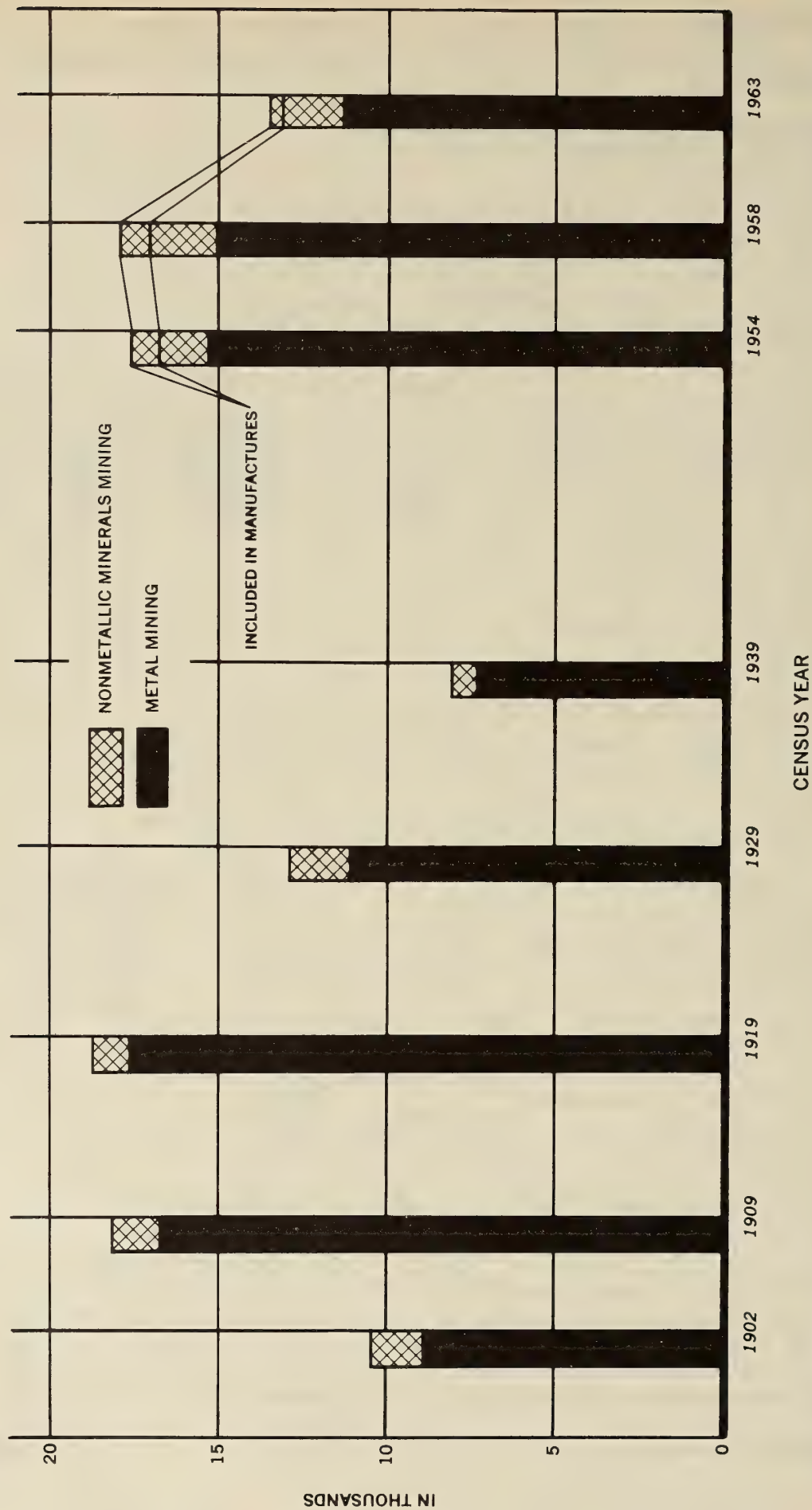
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MINNESOTA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|----------------------------|--|--|----------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 334 | 67 | 13 248 | 91 001 | 9 947 | 18 923 | 59 522 | 367 698 | |
| 1958 | 289 | 89 | 17 178 | 97 075 | 11 726 | 22 295 | 59 543 | 311 745 | |
| 1954 | 292 | 84 | 16 995 | 75 472 | 13 849 | 26 355 | 56 495 | 290 205 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 ¹ | 365 | 73 | 13 679 | 93 324 | 10 295 | 19 704 | 61 237 | 372 995 | |
| 1958 | 317 | 96 | 18 164 | 101 547 | 12 600 | 24 207 | 63 039 | 319 677 | |
| 1954 ¹ | 300 | 88 | 17 756 | 78 444 | 14 499 | 27 923 | 58 942 | 293 990 | |
| 1939 ² | 178 | (NA) | 8 145 | 13 385 | 6 866 | 13 215 | 9 987 | 91 572 | |
| 1929 ⁴ | 150 | (NA) | 12 973 | 21 536 | 11 684 | (NA) | 18 283 | 116 681 | |
| 1919 ⁵ | 145 | (NA) | 18 824 | 32 925 | 17 540 | (NA) | 29 835 | 108 981 | |
| 1909 ⁵ | 189 | (NA) | 18 223 | 13 754 | 16 877 | (NA) | 12 161 | 47 487 | |
| 1902 ⁶ | 176 | (NA) | 10 552 | 7 042 | 9 877 | (NA) | 6 465 | 22 523 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 97 233 | 46 781 | 5 226 | 10 385 | 502 129 | 25 194 | 10 863 | 1 092 | 1 757 |
| 1958 | 75 939 | 29 743 | 10 993 | 7 547 | 420 698 | 15 269 | 7 824 | 667 | (NA) |
| 1954 | 56 740 | 4 580 | 30 763 | 25 622 | 343 864 | 64 046 | 2 645 | 191 | 1 229 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 1098 248 | 47 072 | 105 229 | 1110 489 | 508 719 | 11125 314 | 1110 863 | 1 092 | 111 757 |
| 1958 | 1078 944 | 29 743 | 610 993 | 11 7 583 | 431 635 | 1115 305 | 117 878 | 625 | (NA) |
| 1954 ¹ | 1058 948 | 5 138 | 1030 771 | 1125 800 | 350 424 | 1164 223 | 112 713 | 187 | 111 240 |
| 1939 ² | 7 258 | (NA) | 106 | (NA) | 98 936 | (NA) | 1 715 | 250 | 318 |
| 1929 ⁴ | 14 240 | (NA) | 1 480 | 3 031 | 132 401 | (NA) | 3 963 | 339 | 210 |
| 1919 ⁵ | 19 229 | - | 2 189 | (NA) | 130 399 | (NA) | 125 698 | 325 | 148 |
| 1909 ⁵ | 8 986 | - | 2 192 | (NA) | 58 665 | (NA) | (NA) | (NA) | 154 |
| 1902 ⁶ | 2 868 | (NA) | 339 | (NA) | 25 730 | (NA) | (NA) | (NA) | 30 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract services operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for any sand and gravel mining operations in manufacturing establishments. All figures except number of establishments exclude data for 2 common clay pits included in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for limestone and granite dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operations was \$51 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for limestone is not available.

³Represents number of mines and quarries.

⁴Excludes data for clay mining operations included in manufacturing establishments. There were about 6 such mines in 1939 with products valued at about \$114 thousand.

⁵Excludes data for sand and gravel mining operations included in manufacturing establishments and for stone quarries operated as parts of cement and lime plants. In 1929, there were 25 such operations with products value at \$2,042 thousand. See also footnote 7.

⁶Excludes data for sand, gravel, common clay, and shale mining operations in manufacturing establishments. Includes data for 2 cement plants and an unknown number of lime plants producing lime value at \$76 thousand.

⁷Represents number of producing mines and quarries.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For sand and gravel and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishments. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For all other years, represents net production and excludes this duplication.

¹⁰For sand and gravel and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale and purchased fuels and electric energy.

¹¹Excludes data for sand and gravel and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric for such operations amounted to only 3 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 365 | 73 | 13 679 | 93 324 | 10 295 | 19 704 | 61 237 |
| | MINERAL INDUSTRIES. | 334 | 67 | 13 248 | 91 001 | 9 947 | 18 923 | 59 522 |
| | INCLUDED IN MANUFACTURES. | 31 | 6 | ¹ 431 | ¹ 2 323 | ¹ 348 | 781 | 1 715 |
| 10 | METAL MINING. | 77 | 48 | 11 434 | 81 763 | 8 515 | 16 217 | 52 901 |
| 1011 | IRON ORES | 72 | 46 | 11 161 | 80 334 | 8 279 | 15 769 | 51 709 |
| 1081 | METAL MINING SERVICES | 5 | 2 | 273 | 1 429 | 236 | 448 | 1 192 |
| | NONMETALLIC MINERALS MINING | 288 | 25 | ² 245 | ¹ 561 | 1 780 | 3 487 | 8 336 |
| 14 | MINERAL INDUSTRIES. | 257 | 19 | ² 1 814 | ⁹ 238 | 1 432 | 2 706 | 6 621 |
| | INCLUDED IN MANUFACTURES. | 31 | 6 | ¹ 431 | ¹ 2 323 | ¹ 348 | 781 | 1 715 |
| | DIMENSION STONE | 19 | 5 | 433 | 2 259 | 348 | 777 | 1 647 |
| 1411 | MINERAL INDUSTRY. | 14 | - | 58 | 212 | 56 | 109 | 208 |
| | INCLUDED IN MANUFACTURES. | 5 | 5 | 375 | 2 047 | 292 | 668 | 1 439 |
| 1421 | CRUSHED AND BROKEN STONE (MINERAL INDUSTRY). | 27 | 9 | 399 | 2 040 | 323 | 634 | 1 453 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 23 | 8 | 354 | 1 734 | 282 | 544 | 1 179 |
| 144 | SAND AND GRAVEL | 232 | 9 | 1 230 | 6 088 | 1 030 | 1 915 | 4 958 |
| | MINERAL INDUSTRY. | 209 | 8 | 1 182 | 5 854 | 982 | 1 820 | 4 724 |
| | INCLUDED IN MANUFACTURES. | 23 | 1 | ¹ 48 | ¹ 234 | ¹ 48 | 95 | 234 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 372 995 | ³ 161 038 | ¹ 508 719 | ⁴ 25 314 | 18 164 | 319 677 | |
| | MINERAL INDUSTRIES. | 367 698 | 159 625 | 502 129 | 25 194 | 17 178 | 311 745 | |
| | INCLUDED IN MANUFACTURES. | 5 297 | ³ 1 413 | ¹ 6 590 | ⁴ 120 | ¹ 986 | 7 932 | |
| 10 | METAL MINING. | 350 816 | 150 233 | 477 906 | 23 143 | 15 166 | 292 231 | |
| 1011 | IRON ORES | 348 090 | 149 384 | 474 619 | 22 855 | 15 048 | 291 127 | |
| 1081 | METAL MINING SERVICES | 2 726 | 849 | 3 287 | 288 | 118 | 1 104 | |
| | NONMETALLIC MINERALS MINING | 22 179 | ³ 10 805 | ¹ 30 813 | ⁴ 2 171 | 2 998 | 27 446 | |
| 14 | MINERAL INDUSTRIES. | 16 882 | 9 392 | 24 223 | 2 051 | ² 012 | 19 514 | |
| | INCLUDED IN MANUFACTURES. | 5 297 | ³ 1 413 | ¹ 6 590 | ⁴ 120 | ¹ 986 | 7 932 | |
| | DIMENSION STONE | 4 476 | 1 458 | 5 803 | 131 | 972 | 6 708 | |
| 1411 | MINERAL INDUSTRY. | 456 | 234 | 679 | 11 | 88 | 402 | |
| | INCLUDED IN MANUFACTURES. | 4 020 | 1 224 | 5 124 | 120 | 884 | 6 306 | |
| 1421 | CRUSHED AND BROKEN STONE (MINERAL INDUSTRY). | 4 174 | 2 313 | 5 987 | 500 | 542 | 4 354 | |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 3 544 | 1 768 | 4 823 | 489 | 505 | 4 053 | |
| 144 | SAND AND GRAVEL | 12 698 | ³ 6 571 | ¹ 17 857 | (NA) | 1 358 | 15 784 | |
| | MINERAL INDUSTRY. | 11 518 | 6 411 | 16 517 | 1 412 | 1 282 | 14 256 | |
| | INCLUDED IN MANUFACTURES. | 1 180 | ³ 160 | ¹ 1 340 | (NA) | ¹ 76 | 1 528 | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Includes figures for separately reported central offices and related facilities in the Crude Petroleum and Natural Gas Industry.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|----------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES . | 159 625 | 97 233 | 46 781 | 5 226 | 10 385 | 25 194 | 8 790 | 16 404 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING | 150 233 | ³ 137 577 | (³) | 3 931 | 8 725 | 23 143 | 8 760 | 14 383 | (X) | (X) | (X) | (X) |
| 1011 | IRON ORES. | 149 384 | ³ 137 009 | (³) | 3 929 | 8 446 | 22 855 | 8 760 | 14 095 | ⁴ 46 170 | ⁴ 435 074 | — | — |
| 14 | NONMETALLIC MINERALS MINING. | 9 392 | ³ 6 437 | (³) | 1 295 | 1 660 | 2 051 | 30 | 2 021 | (X) | (X) | (X) | (X) |
| 142 | CRUSHED AND BROKEN STONE . | 2 313 | ³ 1 618 | (³) | 481 | 214 | 500 | 8 | 492 | 4 013 | ⁵ 5 446 | ⁶ 90 | 186 |
| 144 | SAND AND GRAVEL. | 6 411 | ³ 4 299 | (³) | 803 | 1 309 | 1 412 | 22 | 1 390 | 17 853 | ⁵ 16 299 | 900 | (⁵) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Quantity represents thousands of long tons.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 6.⁶Includes sand and gravel produced and used in the same manufacturing establishments.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|---------|--------------------|----------------|--|------------------------------|
| | | | Total | Mines only | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | | |
| 10 | ALL MINERAL INDUSTRIES | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 329 | 319 | 75 | 4 | 71 | - | 239 | 1 | 231 | 7 | 5 |
| | NUMBER OF EMPLOYEES..... | 11 606 | (D) | 2 093 | (D) | (D) | - | 7 972 | (D) | 7 358 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 365 082 | (D) | 49 809 | (D) | (D) | - | 251 152 | (D) | 243 944 | (D) | (D) |
| 101 | METAL MINING | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 72 | 63 | 16 | 4 | 12 | - | 42 | 1 | 41 | - | 5 |
| | NUMBER OF EMPLOYEES..... | 9 908 | (D) | (D) | (D) | (D) | - | 6 477 | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 348 090 | (D) | (D) | (D) | (D) | - | 235 615 | (D) | (D) | - | (D) |
| 101 | IRON ORES | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 72 | 63 | 16 | 4 | 12 | - | 42 | 1 | 41 | - | 5 |
| | NUMBER OF EMPLOYEES..... | 9 908 | (D) | (D) | (D) | (D) | - | 6 477 | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 348 090 | (D) | (D) | (D) | (D) | - | 235 615 | (D) | (D) | - | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 257 | 256 | 59 | - | 59 | - | 197 | - | 190 | 7 | - |
| | NUMBER OF EMPLOYEES..... | 1 697 | (D) | (D) | - | (D) | - | 1 495 | - | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 984 | (D) | (D) | - | (D) | - | 15 537 | - | (D) | (D) | - |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 27 | 27 | - | - | - | - | 27 | - | 27 | - | - |
| | NUMBER OF EMPLOYEES..... | 386 | 386 | - | - | - | - | 386 | - | 386 | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 174 | 4 174 | - | - | - | - | 4 174 | - | 4 174 | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 209 | 208 | 41 | - | 41 | - | 167 | - | 160 | 7 | - |
| | NUMBER OF EMPLOYEES..... | 1 158 | (D) | (D) | - | (D) | - | 1 048 | - | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 620 | (D) | (D) | - | (D) | - | 10 768 | - | (D) | (D) | - |

Standard Notes: — Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-------------------------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 365 | 73 | 13 679 | 93 324 | 10 295 | 19 704 | 61 237 | 372 995 | 161 038 | 508 719 | 25 314 | 18 164 | 319 677 |
| | MINERAL INDUSTRIES | 334 | 67 | 13 248 | 91 001 | 9 947 | 18 923 | 59 522 | 367 698 | 159 625 | 502 129 | 25 194 | 17 178 | 311 745 |
| | INCLUDED IN MANUFACTURES ² | 31 | 6 | 431 | 2 323 | 348 | 781 | 1 715 | 5 297 | 1 413 | 6 590 | 120 | 986 | 7 932 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| 14 | BLUE EARTH COUNTY, TOTAL | 7 | - | 50 | 191 | 39 | 67 | 128 | 499 | 140 | 544 | 95 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 7 | - | 50 | 191 | 39 | 67 | 128 | 499 | 140 | 544 | 95 | 60 | 707 |
| | CROW WING COUNTY, TOTAL. | 8 | 4 | 323 | 2 175 | 276 | 519 | 1 749 | 5 295 | 1 208 | 6 129 | 374 | 473 | 9 414 |
| | FILLMORE COUNTY, TOTAL | 9 | 3 | 126 | 715 | 116 | 244 | 657 | 3 056 | 1 896 | 4 323 | 629 | 111 | 1 601 |
| | HENNEPIN COUNTY, TOTAL | 22 | 3 | 452 | 2 242 | 316 | 452 | 1 423 | 3 034 | 1 416 | 4 233 | 217 | 236 | 2 187 |
| 10 101 | ITASCA COUNTY, TOTAL | 24 | 15 | 1 796 | 11 651 | 1 556 | 2 878 | 9 500 | 65 281 | 12 523 | 74 385 | 3 419 | 2 594 | 73 429 |
| | METAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 14 | IRON ORES. | 19 | 15 | 1 783 | 11 552 | 1 548 | 2 862 | 9 448 | 65 114 | 12 434 | 74 145 | 3 403 | 2 583 | 73 283 |
| | MOWER COUNTY, TOTAL. | 8 | - | 21 | 94 | 19 | 40 | 93 | 499 | 226 | 653 | 72 | (NA) | (NA) |
| 14 144 | NONMETALLIC MINERALS MINING. | 8 | - | 21 | 94 | 19 | 40 | 93 | 499 | 226 | 653 | 72 | (NA) | (NA) |
| | OTTER TAIL COUNTY, TOTAL | 7 | - | 35 | 167 | 33 | 74 | 160 | 658 | 117 | 718 | 57 | (NA) | (NA) |
| 14 144 | NONMETALLIC MINERALS MINING. | 7 | - | 35 | 167 | 33 | 74 | 160 | 658 | 117 | 718 | 57 | (NA) | (NA) |
| | SAND AND GRAVEL. | 7 | - | 35 | 167 | 33 | 74 | 160 | 658 | 117 | 718 | 57 | (NA) | (NA) |
| 10 101 108 14 144 | ST LOUIS COUNTY, TOTAL | 61 | 26 | 7 890 | 58 290 | 5 588 | 10 695 | 34 897 | 218 945 | 86 330 | 293 523 | 11 752 | 10 993 | 178 118 |
| | METAL MINING | 48 | 26 | 6 594 | 44 747 | 5 551 | 10 608 | 34 716 | 218 434 | 86 054 | 292 783 | 11 705 | 10 926 | 177 598 |
| | IRON ORES. | 44 | 25 | 6 544 | 44 484 | 5 510 | 10 527 | 34 530 | 217 943 | 85 898 | 292 192 | 11 649 | 10 850 | 176 932 |
| | METAL MINING SERVICES. | 4 | 1 | 50 | 263 | 41 | 81 | 186 | 491 | 156 | 591 | 56 | (NA) | (NA) |
| 14 144 | NONMETALLIC MINERALS MINING. | 12 | - | 42 | 195 | 37 | 87 | 181 | 511 | 276 | 740 | 47 | (NA) | (NA) |
| | SAND AND GRAVEL. | 8 | - | 32 | 139 | 27 | 60 | 125 | 325 | 242 | 532 | 35 | (NA) | (NA) |
| 14 142 | SCOTT COUNTY, TOTAL. | 10 | 1 | 78 | 477 | 64 | 128 | 356 | 905 | 508 | 1 232 | 181 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 10 | 1 | 78 | 477 | 64 | 128 | 356 | 905 | 508 | 1 232 | 181 | 58 | 532 |
| | CRUSHED AND BROKEN STONE | 4 | 1 | 61 | 405 | 49 | 96 | 298 | 753 | 316 | 995 | 74 | (NA) | (NA) |
| 14 | STEARNS COUNTY, TOTAL. | 3 | 1 | 47 | 286 | 36 | 75 | 206 | 440 | 182 | 610 | 12 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 3 | 1 | 47 | 286 | 36 | 75 | 206 | 440 | 182 | 610 | 12 | 44 | 292 |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| MINNESOTA, TOTAL | 365 | 334 | 31 | 72 | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | 14 | 5 | 27 | - | 209 | 23 | 2 | 3 | - | - | 5 | - |
| NO EMPLOYEES | 47 | 44 | 3 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | 2 | - | 36 | 3 | - | - | - | - | 1 | - |
| 1-4 EMPLOYEES | 153 | 132 | 21 | 8 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 5 | 7 | 7 | - | 109 | 18 | - | 3 | - | - | 2 | - |
| 5-9 EMPLOYEES | 56 | 55 | 1 | 6 | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | 8 | - | 2 | - | 36 | 1 | 1 | - | - | - | - | - |
| 10-19 EMPLOYEES | 36 | 36 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 20 | - | 1 | - | - | - | - | - |
| 20-49 EMPLOYEES | 30 | 27 | 3 | 9 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 2 | 8 | - | 7 | 1 | - | - | - | - | 2 | - |
| 50-99 EMPLOYEES | 14 | 12 | 2 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 22 | 21 | 1 | 19 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 500-999 EMPLOYEES | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1000 EMPLOYEES AND OVER | 3 | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AITKIN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| ANOKA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BECKER COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| BELTRAMI COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BENTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BIG STONE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| BLUE EARTH COUNTY, TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | 4 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | 4 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BROWN COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | 1 | - | - | - | - |
| CARLTON COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| CARVER COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| CASS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| CHIPPEWA COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| CHISAGO COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| CLAY COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| COOK COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| COTTONWOOD COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| CROW WING COUNTY, TOTAL | 8 | 8 | - | 5 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| DAKOTA COUNTY, TOTAL | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | 1 | - | 5 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| DODGE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| DOUGLAS COUNTY | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| FARIBAULT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| FILLMORE COUNTY, TOTAL | 9 | 9 | - | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 6 | 6 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 3 | 3 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| FREEBORN COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

Standard Notes: - Represents zero, (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

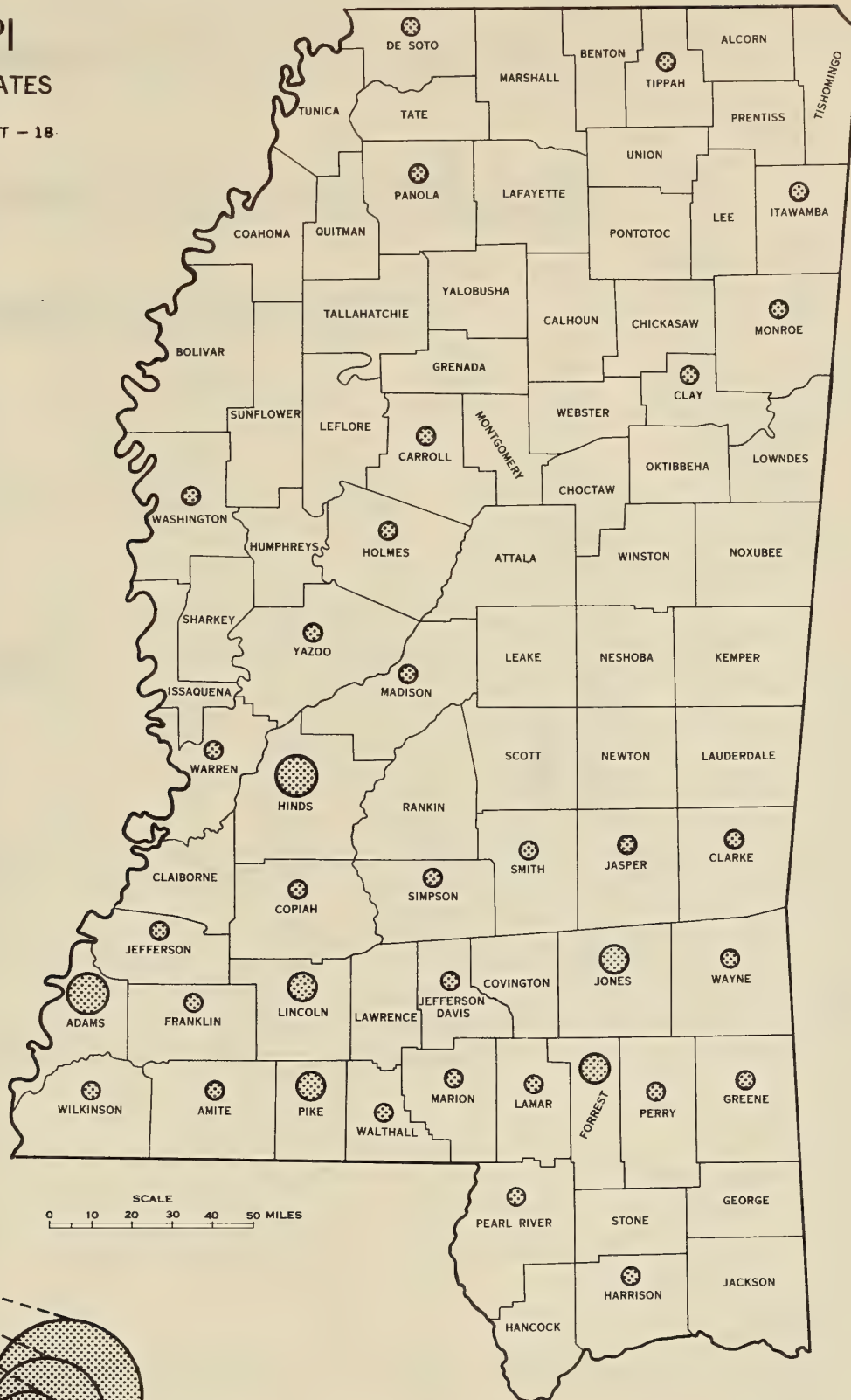
EMPLOYMENT IN MINING BY COUNTY: 1963

MISSISSIPPI

RANK AMONG STATES

EMPLOYMENT — 27

VALUE OF SHIPMENT — 18



EMPLOYMENT

8000 - 12000

4000 - 7999

2000 - 3999

1000 - 1999

500 - 999

200 - 499

25 - 199



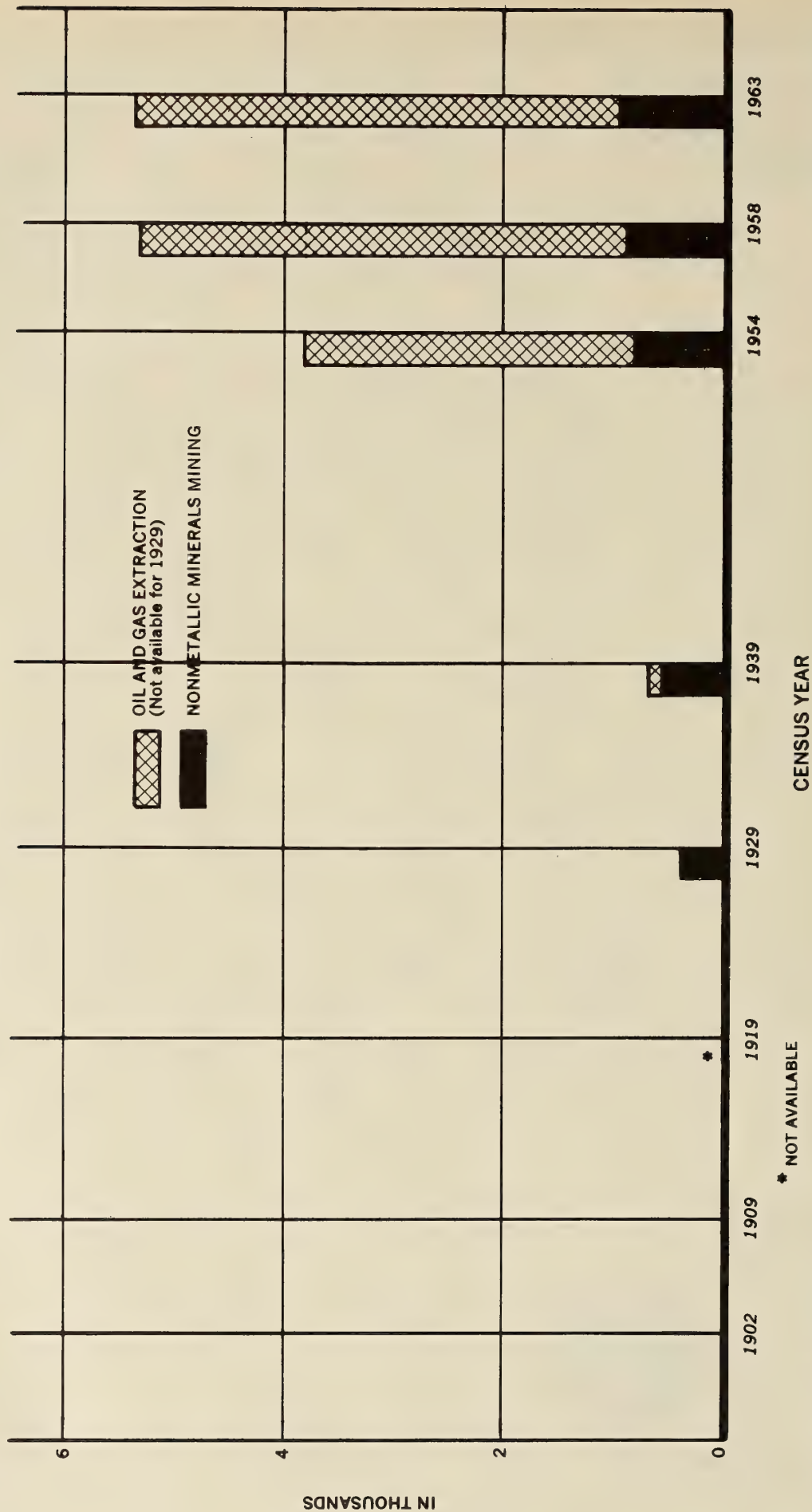
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MISSISSIPPI



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|--|---|----------------------------|--|--|----------------------|-------------------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 369 | 70 | 5 271 | 29 824 | 3 979 | 8 071 | 19 902 | 200 512 | |
| 1958. | 355 | 64 | 5 302 | 26 551 | 4 126 | 8 790 | 18 958 | 135 339 | |
| 1954. | 214 | 51 | 3 793 | 15 557 | 3 076 | 6 316 | 11 620 | 94 282 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 389 | 72 | 5 378 | 30 242 | 4 086 | 8 270 | 20 320 | 201 942 | |
| 1958. | 269 | 64 | 5 346 | 26 687 | 4 170 | 8 872 | 19 094 | 136 231 | |
| 1954. | 226 | 52 | 3 845 | 15 691 | 3 128 | 6 418 | 11 754 | 94 855 | |
| 1939 ¹ | ² 73 | (NA) | 695 | 658 | 589 | 1 173 | 429 | 1 078 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 87 | 16 | 971 | 3 546 | 827 | 1 841 | 3 017 | 9 395 | |
| 1958. | 71 | 14 | 897 | 2 989 | 773 | 1 691 | 2 436 | 9 553 | |
| 1954. | 61 | 16 | 820 | 2 309 | 746 | 1 691 | 2 124 | 7 325 | |
| 1939. | ² 45 | (NA) | 572 | 445 | 510 | 1 040 | 303 | 1 097 | |
| 1929 ³ | 13 | (NA) | 414 | 445 | 362 | (NA) | 328 | 774 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁵ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation ⁴ (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 35 095 | 18 488 | 40 531 | 10 866 | 266 423 | 39 069 | 5 096 | 1 281 | 518 |
| 1958. | 30 248 | 15 406 | 28 392 | 11 135 | 188 013 | 32 507 | 4 531 | 1 098 | (NA) |
| 1954. | ⁶ 18 642 | (⁶) | 19 086 | 11 272 | 120 233 | 23 049 | 3 970 | 1 291 | 252 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ⁷ 35 603 | 18 488 | ⁷ 40 531 | ⁸ 10 866 | 268 361 | ⁸ 39 069 | ⁸ 5 096 | 1 281 | ⁸ 518 |
| 1958. | ⁷ 30 502 | 15 406 | ⁷ 28 392 | ⁸ 11 135 | 189 159 | ⁸ 32 507 | ⁸ 4 531 | 1 087 | (NA) |
| 1954. | ⁶ 18 829 | (⁶) | ⁷ 19 086 | ⁸ 11 272 | 120 993 | ⁸ 23 049 | ⁸ 3 970 | 1 269 | ⁸ 252 |
| 1939 ¹ | 515 | (NA) | 546 | (NA) | 2 139 | (NA) | 184 | 312 | 14 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ⁷ 3 475 | 4 | ⁷ 450 | ⁸ 1 055 | 13 222 | ⁸ 1 157 | ⁸ 352 | 482 | ⁸ 95 |
| 1958. | ⁷ 3 215 | 10 | ⁷ 308 | ⁸ 711 | 12 617 | ⁸ 1 180 | ⁸ 297 | 384 | (NA) |
| 1954. | ⁷ 2 508 | - | ⁷ 453 | ⁸ 872 | 10 295 | ⁸ 863 | ⁸ 219 | 294 | ⁸ 40 |
| 1939. | 322 | (NA) | 8 | (NA) | 1 427 | (NA) | 66 | 129 | 12 |
| 1929 ³ | 331 | (NA) | 4 | 81 | 1 109 | (NA) | 90 | 249 | 7 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for 2 oil and gas field services establishments.

²Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

³All figures except number of establishments include data for one limestone quarry in Louisiana. Excludes data for common clay and shale operations; in 1939, there were 6 such pits with products valued at \$34 thousand.

⁴For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants.

⁵For crushed and broken stone and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958 and 1954, represents gross value of shipments and contains duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For 1939 and 1929, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁶The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁷For crushed and broken stone and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchased fuels and electric energy.

⁸Excludes data for crushed and broken stone and clay mining operations in manufacturing establishments.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | | |
|------|--|-----------------------------|--|---|------------------------------------|--|----------------------|--------------------------|--|
| | | Establishments | | All employees | | Production, development, and exploration workers | | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| 13 | ALL MINERAL OPERATIONS | 389 | 72 | 5 378 | 30 242 | 4 086 | 8 270 | 20 320 | |
| | MINERAL INDUSTRIES | 369 | 70 | 5 271 | 29 824 | 3 979 | 8 071 | 19 902 | |
| | INCLUDED IN MANUFACTURES | 20 | 2 | ¹ 107 | ¹ 418 | ¹ 107 | 199 | 418 | |
| | OIL AND GAS EXTRACTION | 302 | 56 | 4 407 | 26 696 | 3 259 | 6 429 | 17 303 | |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 198 | 21 | 1 886 | 14 352 | 939 | 1 954 | 6 286 | |
| | CRUDE PETROLEUM. | 183 | 20 | 1 806 | 13 783 | 897 | 1 884 | 6 010 | |
| | NATURAL GAS. | 15 | 1 | 80 | 569 | 42 | 70 | 276 | |
| | NATURAL GAS LIQUIDS. | 6 | 2 | 86 | 648 | 75 | 150 | 506 | |
| | OIL AND GAS FIELD SERVICES | 98 | 33 | 2 435 | 11 696 | 2 245 | 4 325 | 10 511 | |
| | DRILLING OIL AND GAS WELLS | 42 | 24 | 1 612 | 8 791 | 1 498 | 2 928 | 7 906 | |
| 1381 | OIL AND GAS FIELD EXPLORATION SERVICES. | 10 | 3 | 326 | 1 161 | 314 | 620 | 1 076 | |
| | OIL AND GAS FIELD SERVICES: N.E.C. . . | 46 | 6 | 497 | 1 744 | 433 | 777 | 1 529 | |
| | NONMETALLIC MINERALS MINING. | 87 | 16 | 971 | 3 546 | 827 | 1 841 | 3 017 | |
| | MINERAL INDUSTRIES | 67 | 14 | 864 | 3 128 | 720 | 1 642 | 2 599 | |
| | INCLUDED IN MANUFACTURES | 20 | 2 | ¹ 107 | ¹ 418 | ¹ 107 | 199 | 418 | |
| | SAND AND GRAVEL: MINERAL INDUSTRY | 53 | 9 | 651 | 2 445 | 531 | 1 244 | 2 039 | |
| | CLAY AND RELATED MINERALS. | 30 | 6 | 269 | 901 | 245 | 497 | 778 | |
| | 1963-Continued | | | | | | | 1958 | |
| | Code | Industry group and industry | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 13 | ALL MINERAL OPERATIONS | 201 942 | ² 105 488 | ¹ 268 361 | (NA) | 5 346 | 136 231 | | |
| | MINERAL INDUSTRIES | 200 512 | 104 980 | 266 423 | 39 069 | 5 302 | 135 339 | | |
| | INCLUDED IN MANUFACTURES | 1 430 | ² 508 | ¹ 1 938 | (NA) | ¹ 44 | 892 | | |
| | OIL AND GAS EXTRACTION | 192 547 | 100 504 | 255 139 | 37 912 | 4 449 | 126 678 | | |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 162 838 | 61 203 | 191 529 | 32 512 | 2 071 | 107 714 | | |
| | CRUDE PETROLEUM. | 156 519 | 58 887 | 183 788 | 31 618 | 1 972 | 99 041 | | |
| | NATURAL GAS. | 6 319 | 2 316 | 7 741 | 894 | 99 | 8 673 | | |
| | NATURAL GAS LIQUIDS. | 4 382 | 19 489 | 23 220 | 651 | 57 | 988 | | |
| | OIL AND GAS FIELD SERVICES | 25 327 | 19 812 | 40 390 | 4 749 | 2 321 | 17 976 | | |
| | DRILLING OIL AND GAS WELLS | 19 291 | 17 091 | 32 411 | 3 971 | 865 | 10 398 | | |
| 1381 | OIL AND GAS FIELD EXPLORATION SERVICES. | 1 757 | 1 231 | 2 781 | 207 | 847 | 3 573 | | |
| | OIL AND GAS FIELD SERVICES: N.E.C. . . | 4 279 | 1 490 | 5 198 | 571 | 609 | 4 005 | | |
| | NONMETALLIC MINERALS MINING. | 9 395 | ² 4 984 | ¹ 13 222 | 1 157 | 897 | 9 553 | | |
| | MINERAL INDUSTRIES | 7 965 | 4 476 | 11 284 | 1 157 | 853 | 8 661 | | |
| | INCLUDED IN MANUFACTURES | 1 430 | ² 508 | ¹ 1 938 | (NA) | ¹ 44 | 892 | | |
| | SAND AND GRAVEL: MINERAL INDUSTRY | 4 871 | 3 022 | 7 145 | 748 | 666 | 5 942 | | |
| | CLAY AND RELATED MINERALS. | 3 723 | 1 723 | 5 054 | (NA) | (NA) | (NA) | | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operation, hence, the same figures are included for production, development, and exploration workers and for all employees at such operation. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 104 980 | 35 095 | 18 488 | 40 531 | 10 866 | 39 069 | 20 296 | 18 773 | (X) | (X) | (X) | (X) |
| 13 | OIL AND GAS EXTRACTION. . . . | 100 504 | 32 128 | 18 484 | 40 081 | 9 811 | 37 912 | 20 261 | 17 651 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 61 203 | 20 245 | — | 33 990 | 6 968 | 32 512 | 17 838 | 14 674 | (X) | 190 773 | (X) | 2 919 |
| | CRUDE PETROLEUM | 58 887 | 19 994 | — | 32 098 | 6 795 | 31 618 | 17 123 | 14 495 | ³ 58 088 | 158 493 | ³ 1 660 | 4 285 |
| | NATURAL GAS | 2 316 | 251 | — | 1 892 | 173 | 894 | 715 | 179 | ⁴ 35 270 | 6 345 | ⁴ 133 513 | 24 569 |
| 1321 | NATURAL GAS LIQUIDS | 19 489 | 666 | 18 484 | 140 | 199 | 651 | — | 651 | ⁵ 1 239 | ⁵ 2 631 | — | — |
| 138 | OIL AND GAS FIELD SERVICES, DRILLING OIL AND GAS WELLS. | 19 812 | 11 217 | — | 5 951 | 2 644 | 4 749 | 2 423 | 2 326 | (X) | (X) | (X) | (X) |
| 1381 | OIL AND GAS FIELD SERVICES, N.E.C. | 17 091 | 9 548 | — | 5 531 | 2 812 | 3 971 | 2 422 | 1 549 | (X) | ⁶ 30 350 | (X) | (⁶) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 1 490 | 824 | — | 178 | 488 | 571 | 1 | 570 | (X) | ⁶ 6 340 | (X) | (⁶) |
| 14 | NONMETALLIC MINERALS MINING . | 4 476 | 2 967 | 4 | 450 | 1 055 | 1 157 | 35 | 1 122 | (X) | (X) | (X) | (X) |
| 1441 | SAND AND GRAVEL | 3 022 | ⁷ 2 229 | (⁷) | 87 | 706 | 748 | 23 | 725 | 6 627 | ⁸ 6 676 | ⁹ 844 | (⁸) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁴Represents millions of cubic feet of natural gas shipped.⁵Represents net shipments of natural gas liquids only. Quantity figures are in thousands of barrels.⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁷Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁸Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 9.⁹Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| 13 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 270 | 250 | 193 | - | 15 | 178 | 50 | - | 45 | 5 | 7 | |
| | NUMBER OF EMPLOYEES..... | 2 777 | 2 754 | 1 836 | - | (D) | (D) | (D) | - | 675 | (D) | (D) | |
| | VALUE ADDED IN MINING.....\$1,000.. | 176 688 | 176 804 | 164 217 | - | (D) | (D) | (D) | - | 7 033 | (D) | (D) | |
| | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 204 | 184 | 178 | - | - | 178 | - | - | - | - | 6 | |
| | NUMBER OF EMPLOYEES..... | 1 879 | 1 856 | (D) | - | - | (D) | - | - | - | - | (D) | |
| | VALUE ADDED IN MINING.....\$1,000.. | 168 154 | 168 270 | (D) | - | - | (D) | - | - | - | - | (D) | |

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|---|-----------------------------|---------------------------|---------------|---------|--|-----------|--------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 389 | 72 | 5 378 | 30 242 | 4 086 | 8 270 | 20 320 | 201 942 | 105 488 | 268 361 | (NA) | 5 346 | 136 231 |
| | MINERAL INDUSTRIES | 369 | 70 | 5 271 | 29 824 | 3 979 | 8 071 | 19 902 | 200 512 | 104 980 | 266 423 | 39 069 | 5 302 | 135 339 |
| | INCLUDED IN MANUFACTURES ² , | 20 | 2 | 107 | 418 | 107 | 199 | 418 | 1 430 | 508 | 1 938 | (NA) | 44 | 892 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ADAMS COUNTY, TOTAL | 92 | 7 | 668 | 3 711 | 522 | 1 104 | 2 706 | 21 198 | 16 609 | 35 274 | 2 533 | 631 | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 52 | 1 | 165 | 1 154 | 94 | 193 | 586 | 16 432 | 6 827 | 21 275 | 1 984 | 239 | (NA) |
| | AMITE COUNTY, TOTAL | 30 | 1 | 100 | 686 | 70 | 140 | 415 | 3 288 | 2 571 | 4 448 | 1 411 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 30 | 1 | 100 | 686 | 70 | 140 | 415 | 3 288 | 2 571 | 4 448 | 1 411 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | - | 21 | 129 | 5 | 9 | 25 | 2 443 | 1 871 | 3 013 | 1 303 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | 1 | 79 | 557 | 65 | 131 | 390 | 845 | 698 | 1 435 | 108 | (NA) | (NA) |
| | CLARKE COUNTY, TOTAL | 21 | - | 45 | 279 | 42 | 84 | 252 | 273 | 1 681 | 1 546 | 408 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 21 | - | 45 | 279 | 42 | 84 | 252 | 273 | 1 681 | 1 546 | 408 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 15 | - | 36 | 224 | 34 | 66 | 208 | 139 | 1 597 | 1 337 | 399 | (NA) | (NA) |
| | COVINGTON COUNTY, TOTAL | 11 | - | 10 | 47 | 10 | 17 | 47 | 858 | 794 | 1 536 | 116 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 11 | - | 10 | 47 | 10 | 17 | 47 | 858 | 794 | 1 536 | 116 | 4 | (NA) |
| | FORREST COUNTY, TOTAL | 28 | 2 | 299 | 2 193 | 159 | 373 | 985 | 7 660 | 2 526 | 9 355 | 831 | 273 | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | 1 | 198 | 1 618 | 77 | 155 | 539 | 6 460 | 1 517 | 7 364 | 613 | 151 | (NA) |
| | FRANKLIN COUNTY, TOTAL | 37 | 1 | 86 | 572 | 78 | 158 | 502 | 3 428 | 2 051 | 4 766 | 713 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 37 | 1 | 86 | 572 | 78 | 158 | 502 | 3 428 | 2 051 | 4 766 | 713 | 71 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 19 | - | 10 | 49 | 9 | 17 | 34 | 2 146 | 1 326 | 2 832 | 640 | 26 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 18 | 1 | 76 | 523 | 69 | 141 | 468 | 1 282 | 725 | 1 934 | 73 | (NA) | (NA) |
| | GREENE COUNTY, TOTAL | 14 | - | 26 | 205 | 22 | 60 | 175 | 1 139 | 951 | 846 | 1 244 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 14 | - | 26 | 205 | 22 | 60 | 175 | 1 139 | 951 | 846 | 1 244 | 34 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 10 | - | 26 | 205 | 22 | 60 | 175 | 438 | 438 | 593 | 283 | (NA) | (NA) |
| | HANCOCK COUNTY, TOTAL | 7 | - | 22 | 115 | 22 | 45 | 115 | (4) | 1 905 | 647 | 673 | 23 | (NA) |
| | HINDS COUNTY, TOTAL | 68 | 12 | 805 | 6 201 | 219 | 464 | 1 297 | 7 407 | 2 358 | 8 893 | 872 | 727 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 46 | 8 | 536 | 4 223 | 86 | 178 | 570 | 5 813 | 1 559 | 6 951 | 421 | (NA) | (NA) |
| | ITAWAMBA COUNTY, TOTAL | 5 | 2 | 68 | 266 | 61 | 146 | 230 | 571 | 953 | 1 293 | 231 | (NA) | (NA) |
| | JASPER COUNTY, TOTAL | 41 | 1 | 77 | 364 | 64 | 104 | 263 | 12 600 | 1 704 | 13 841 | 463 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 28 | - | 29 | 178 | 16 | 31 | 79 | 12 150 | 1 365 | 13 123 | 392 | 130 | (NA) |
| | JEFFERSON COUNTY, TOTAL | 36 | 2 | 111 | 814 | 96 | 231 | 677 | 3 546 | 977 | 4 303 | 220 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 36 | 2 | 111 | 814 | 96 | 231 | 677 | 3 546 | 977 | 4 303 | 220 | 83 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 20 | 1 | 58 | 494 | 48 | 98 | 385 | 3 193 | 715 | 3 708 | 200 | 47 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | 1 | 53 | 320 | 48 | 133 | 292 | 353 | 262 | 595 | 20 | (NA) | (NA) |
| | JEFFERSON DAVIS COUNTY, TOTAL | 14 | - | 30 | 150 | 29 | 59 | 141 | 4 565 | 4 746 | 8 934 | 377 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 14 | - | 30 | 150 | 29 | 59 | 141 | 4 565 | 4 746 | 8 934 | 377 | (NA) | (NA) |
| | JONES COUNTY, TOTAL | 66 | 7 | 482 | 2 709 | 388 | 801 | 2 058 | 17 836 | 10 486 | 23 357 | 4 965 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 66 | 7 | 477 | 2 684 | 388 | 801 | 2 058 | 17 836 | 10 486 | 23 357 | 4 965 | 440 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 27 | 2 | 94 | 623 | 47 | 100 | 267 | 13 080 | 6 929 | 15 953 | 4 056 | 141 | (NA) |
| | LAMAR COUNTY, TOTAL | 31 | 2 | 139 | 738 | 118 | 223 | 545 | 13 694 | 2 263 | 15 271 | 686 | 65 | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | - | 45 | 325 | 30 | 58 | 184 | 12 977 | 1 942 | 14 211 | 608 | 25 | (NA) |
| | LINCOLN COUNTY, TOTAL | 32 | 3 | 256 | 1 510 | 197 | 341 | 962 | 6 381 | 10 250 | 15 176 | 1 455 | (NA) | (NA) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS. . . | 32 | 3 | 256 | 1 510 | 197 | 341 | 962 | 6 381 | 10 250 | 15 176 | 1 455 | 353 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | 1 | 99 | 786 | 45 | 86 | 306 | 5 211 | 2 662 | 6 603 | 1 270 | 128 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|------------------|--------------------------------------|-----------------------------|----------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ² | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employ-ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 13 131 | MADISON COUNTY, TOTAL | 16 | - | 33 | 160 | 31 | 49 | 149 | 1 492 | 560 | 1 941 | 111 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 16 | - | 33 | 160 | 31 | 49 | 149 | 1 492 | 560 | 1 941 | 111 | 15 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 7 | - | 3 | 6 | 3 | 4 | 5 | 1 248 | 415 | 1 582 | 81 | (NA) | (NA) |
| 13 131 138 | MARION COUNTY, TOTAL | 32 | 2 | 119 | 608 | 94 | 166 | 431 | 7 307 | 2,580 | 7 834 | 2 053 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 32 | 2 | 119 | 608 | 94 | 166 | 431 | 7 307 | 2,580 | 7 834 | 2 053 | 50 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 14 | - | 24 | 185 | 9 | 15 | 53 | 6 427 | 1,933 | 6 441 | 1 919 | 25 | (NA) |
| | OIL AND GAS FIELD SERVICES | 18 | 2 | 95 | 423 | 85 | 151 | 378 | 880 | 647 | 1 393 | 134 | (NA) | (NA) |
| 13 131 14 | MONROE COUNTY, TOTAL | 20 | 1 | 117 | 328 | 98 | 192 | 249 | 2 639 | 1 108 | 3 293 | 454 | 53 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 9 | - | 2 | 14 | 1 | 2 | 5 | 918 | 322 | 1 035 | 205 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 6 | - | 2 | 14 | 1 | 2 | 5 | 834 | 277 | 921 | 190 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 11 | 1 | 115 | 314 | 97 | 190 | 244 | 1 721 | 786 | 2 258 | 249 | (NA) | (NA) |
| | PANOLA COUNTY, TOTAL | 3 | 2 | 72 | 200 | 69 | 100 | 193 | 668 | 371 | 995 | 44 | (NA) | (NA) |
| 13 131 | PEARL RIVER COUNTY, TOTAL | 23 | 1 | 73 | 404 | 47 | 110 | 255 | 2 267 | 1 533 | 3 289 | 511 | 54 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 13 | 1 | 30 | 225 | 12 | 29 | 99 | 1 975 | 1 433 | 2 924 | 484 | 34 | (NA) |
| 13 131 | PIKE COUNTY, TOTAL | 31 | 4 | 220 | 1 477 | 183 | 403 | 1 146 | 36 472 | 6 823 | 41 647 | 1 648 | 78 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 9 | 2 | 65 | 505 | 45 | 94 | 317 | 31 449 | 4 040 | 34 474 | 1 015 | 6 | (NA) |
| 13 | SCOTT COUNTY, TOTAL | 13 | - | 13 | 66 | 12 | 27 | 57 | 517 | 279 | 611 | 185 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 13 | - | 13 | 66 | 12 | 27 | 57 | 517 | 279 | 611 | 185 | 7 | (NA) |
| 13 131 138 | SIMPSON COUNTY, TOTAL | 36 | - | 104 | 619 | 91 | 206 | 509 | 2 684 | 3 350 | 4 677 | 1 357 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 36 | - | 104 | 619 | 91 | 206 | 509 | 2 684 | 3 350 | 4 677 | 1 357 | 140 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 16 | - | 36 | 281 | 26 | 61 | 202 | 1 808 | 2 691 | 3 342 | 1 157 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 20 | - | 68 | 338 | 65 | 145 | 307 | 876 | 659 | 1 335 | 200 | 112 | (NA) |
| 13 131 | SMITH COUNTY, TOTAL | 38 | 1 | 106 | 642 | 91 | 187 | 488 | 10 609 | 6 843 | 11 187 | 6 265 | 167 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 16 | - | 6 | 40 | 3 | 7 | 23 | 8 315 | 4 046 | 7 429 | 4 932 | 46 | (NA) |
| 13 131 138 | WALTHALL COUNTY, TOTAL | 38 | 1 | 126 | 621 | 108 | 235 | 507 | 7 497 | 3 268 | 8 813 | 1 952 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 38 | 1 | 126 | 621 | 108 | 235 | 507 | 7 497 | 3 268 | 8 813 | 1 952 | 28 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 20 | 1 | 51 | 287 | 46 | 121 | 217 | 6 055 | 2 012 | 6 278 | 1 789 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 18 | - | 75 | 334 | 62 | 114 | 290 | 1 442 | 1 256 | 2 535 | 163 | (NA) | (NA) |
| 13 131 138 | WAYNE COUNTY, TOTAL | 60 | - | 160 | 905 | 141 | 260 | 752 | 9 394 | 4 746 | 12 044 | 2 096 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 60 | - | 160 | 905 | 141 | 260 | 752 | 9 394 | 4 746 | 12 044 | 2 096 | 286 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 30 | - | 46 | 311 | 32 | 55 | 194 | 7 835 | 3 825 | 9 815 | 1 845 | 171 | (NA) |
| | OIL AND GAS FIELD SERVICES | 30 | - | 114 | 594 | 109 | 205 | 558 | 1 559 | 921 | 2 229 | 251 | 115 | (NA) |
| 13 131 138 | WILKINSON COUNTY, TOTAL | 22 | - | 47 | 286 | 41 | 90 | 252 | 1 703 | 997 | 1 883 | 817 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 22 | - | 47 | 286 | 41 | 90 | 252 | 1 703 | 997 | 1 883 | 817 | 87 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 9 | - | 6 | 36 | 4 | 6 | 29 | 1 089 | 713 | 1 012 | 790 | 53 | (NA) |
| | OIL AND GAS FIELD SERVICES | 13 | - | 41 | 250 | 37 | 84 | 223 | 614 | 284 | 871 | 27 | (NA) | (NA) |
| 13 131 | YAZOO COUNTY, TOTAL | 38 | 3 | 182 | 837 | 150 | 285 | 637 | 8 469 | 3 783 | 9 771 | 2 481 | 184 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 21 | 1 | 68 | 385 | 40 | 78 | 208 | 7 258 | 3 211 | 8 181 | 2 288 | 42 | (NA) |
| 13 131 138 | UNDISTRIBUTED, TOTAL | 56 | 4 | 401 | 1 557 | 363 | 682 | 1 398 | 2 923 | 3 403 | 5 468 | 858 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 56 | 4 | 401 | 1 557 | 363 | 682 | 1 398 | 2 923 | 3 403 | 5 468 | 858 | 273 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 18 | - | 32 | 170 | 23 | 37 | 134 | 417 | 1 141 | 1 238 | 320 | 31 | (NA) |
| | OIL AND GAS FIELD SERVICES | 38 | 4 | 369 | 1 387 | 340 | 645 | 1 264 | 2 506 | 2 262 | 4 230 | 538 | 242 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed value of shipments and capital expenditures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| MISSISSIPPI, TOTAL | 389 | 369 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | 198 | 6 | 98 | - | - | - | 2 | 53 | 1 | 13 | 17 | - | 1 | - | - |
| NO EMPLOYEES | 73 | 71 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 63 | - | 4 | - | - | - | - | 2 | - | 2 | 2 | - | - | - | - |
| 1-4 EMPLOYEES | 142 | 129 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | 86 | 1 | 23 | - | - | - | - | 16 | 1 | 3 | 12 | - | - | - | - |
| 5-9 EMPLOYEES | 63 | 63 | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | 1 | 24 | - | - | - | - | 14 | - | 1 | - | - | - | - | - |
| 10-19 EMPLOYEES | 39 | 36 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 2 | 13 | - | - | - | 2 | 13 | - | 3 | 1 | - | - | - | - |
| 20-49 EMPLOYEES | 46 | 44 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 14 | 2 | 18 | - | - | - | - | 6 | - | 3 | 2 | - | 1 | - | - |
| 50-99 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 11 | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 100-249 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 5 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ADAMS COUNTY, TOTAL | 92 | 92 | - | - | - | - | - | - | - | - | - | - | - | - | - | 52 | 1 | 37 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 85 | 85 | - | - | - | - | - | - | - | - | - | - | - | - | - | 51 | - | 33 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 4 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| ALCORN COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| AMITE COUNTY, TOTAL | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ATTALA COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - |
| BOLIVAR COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| CALHOUN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| CARROLL COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| CHICKASAW COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| CLAIBORNE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| CLARKE COUNTY, TOTAL | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | |

See

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| ITAWAMBA COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - |
| JACKSON COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| JASPER COUNTY: TOTAL | 42 | 41 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 28 | - | 11 | - | - | - | - | - | - | 2 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 41 | 40 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 28 | - | 10 | - | - | - | - | - | - | 2 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY: TOTAL | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 34 | 34 | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| JEFFERSON DAVIS COUNTY: TOTAL . . | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 1 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 1 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| JONES COUNTY: TOTAL | 67 | 66 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 27 | 1 | 38 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 60 | 59 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 25 | 1 | 33 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| KEMPER COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| LAMAR COUNTY: TOTAL | 31 | 31 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 16 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 14 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| LAUDERDALE COUNTY: TOTAL | 8 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | 2 | - | - | - | - |
| LAWRENCE COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| LEAKE COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LEE COUNTY: TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| LINCOLN COUNTY: TOTAL | 33 | 32 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 11 | 1 | 20 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 30 | 29 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 1 | 18 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| LOWNDES COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| MADISON COUNTY: TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| MARION COUNTY: TOTAL | 32 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| MARSHALL COUNTY: TOTAL | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - |
| MONROE COUNTY: TOTAL | 22 | 20 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 3 | - | - | - | - | 8 | 1 | 3 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 21 | 19 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 3 | - | - | - | - | 8 | 1 | 2 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| NEWTON COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NOXUBEE COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| PANOLA COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - |
| PEARL RIVER COUNTY: TOTAL | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 7 | - | - | - | - | 2 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 7 | - | - | - | - | 2 | - | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PERRY COUNTY: TOTAL | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|--|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| SMITH COUNTY, TOTAL | 39 | 38 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 21 | - | - | - | - | - | - | 1 | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | 38 | 37 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 20 | - | - | - | - | - | - | 1 | 1 | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| STONE COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | 2 | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | 2 | 2 | - | - | - | - | - | - | |
| SUNFLOWER COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | |
| TALLAHATCHIE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| TATE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| TIPPAH COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| TISHOMINGO COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | - | |
| WALTHALL COUNTY, TOTAL | 38 | 38 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | - | 18 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 37 | 37 | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 | - | 18 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| WARREN COUNTY, TOTAL | 5 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 5 | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 5 | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| WASHINGTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| WAYNE COUNTY, TOTAL | 60 | 60 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 30 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 60 | 60 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 30 | - | - | - | - | - | - | - | - | - | - | - | - | |
| WEBSTER COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| WILKINSON COUNTY, TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - | |
| YALOBUSHA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| YAZOO COUNTY, TOTAL | 38 | 38 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 14 | - | - | - | 3 | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 35 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | - | 13 | - | - | - | 2 | 2 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| OFFSHORE, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| UNDISTRIBUTED, TOTAL | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | - | 38 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | - | 34 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

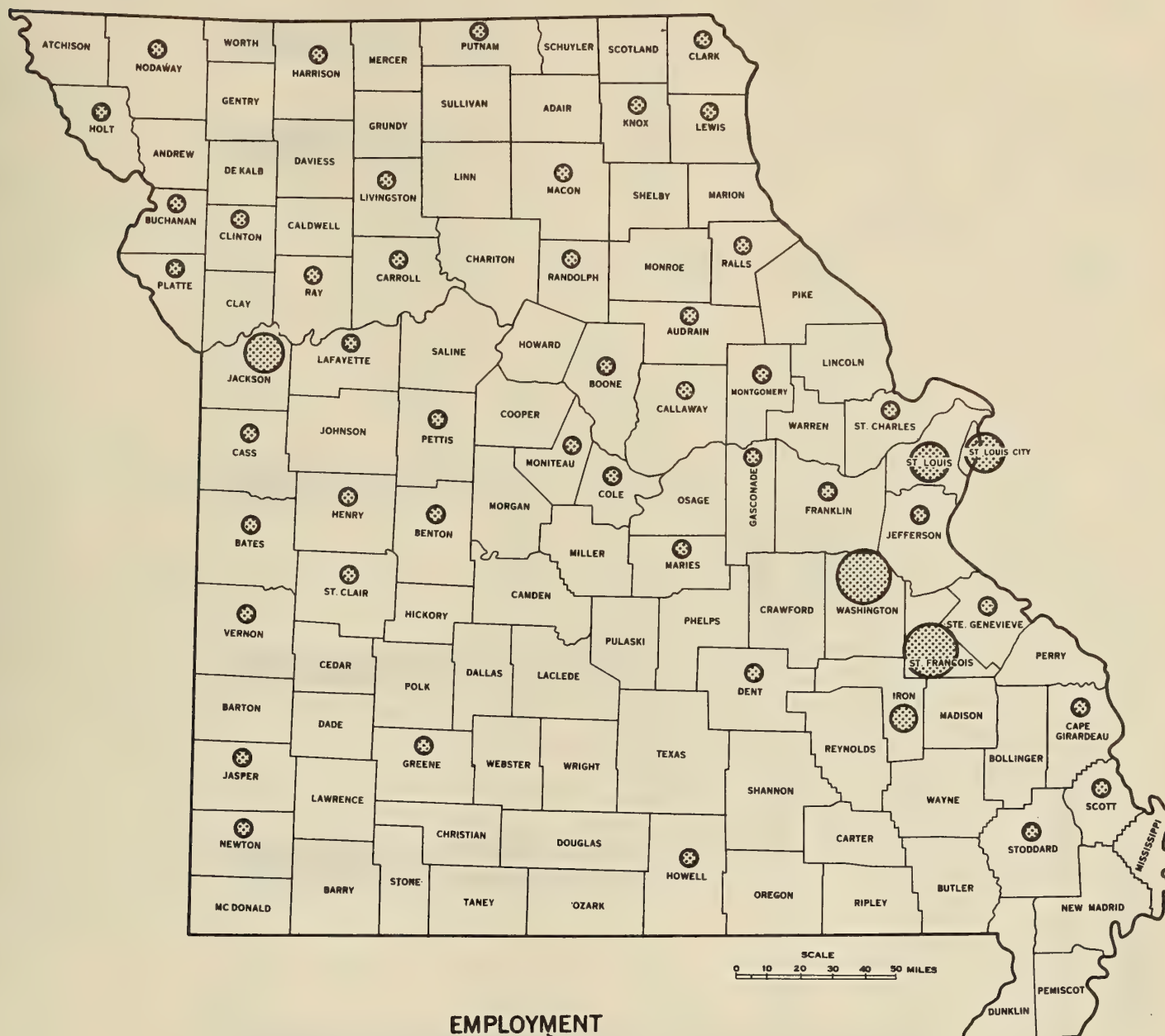
EMPLOYMENT IN MINING BY COUNTY: 1963

MISSOURI

RANK AMONG STATES

EMPLOYMENT - 21

VALUE OF SHIPMENT - 28



EMPLOYMENT

- 8000 - 12000
- 4000 - 7999
- 2000 - 3999
- 1000 - 1999
- 500 - 999
- 200 - 499
- 25 - 199



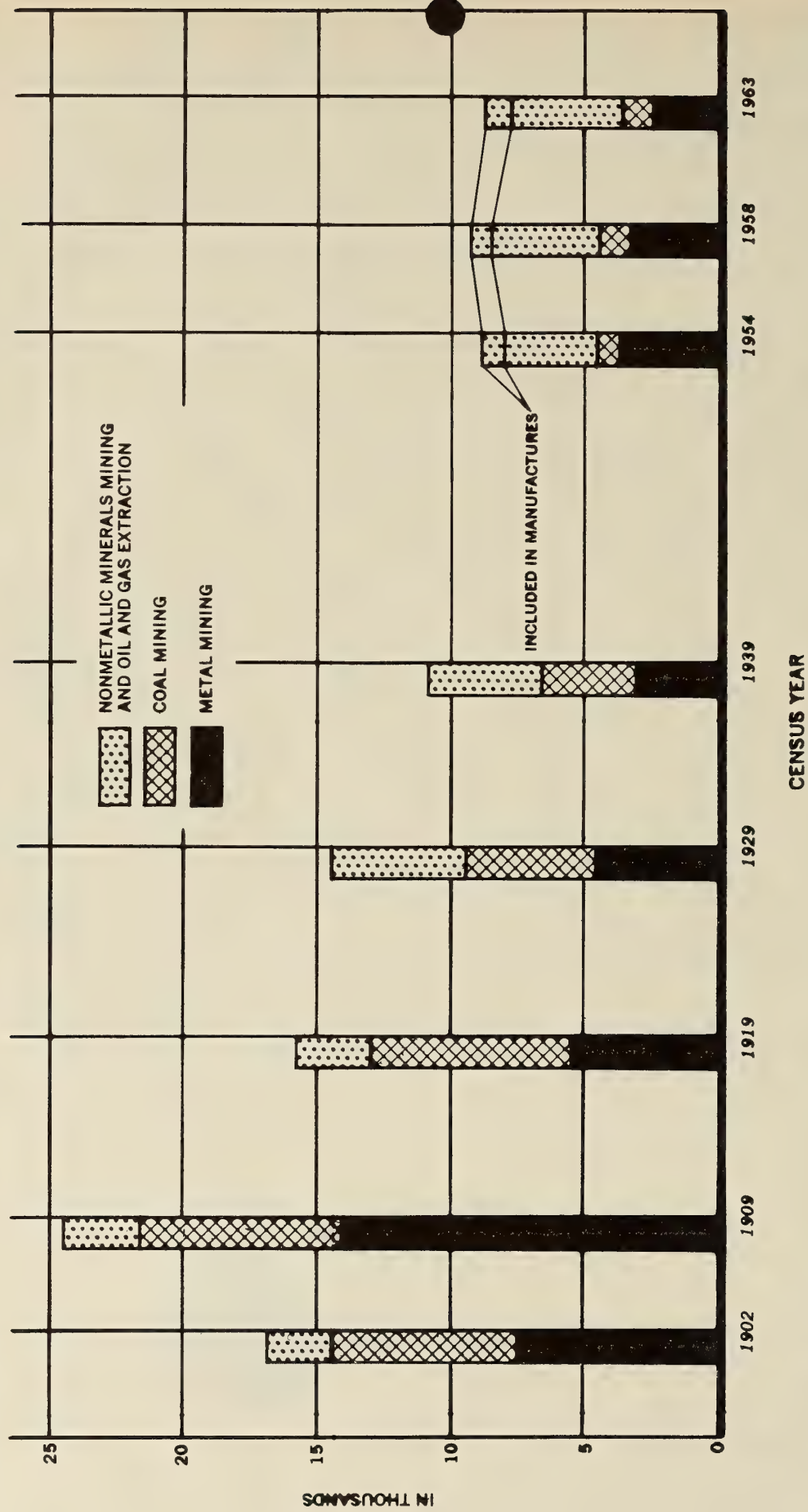
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MISSOURI



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|--------------------------------|--|---|---------------------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 425 | 66 | 7 728 | 38 226 | 5 818 | 11 259 | 27 128 | 66 288 | |
| 1958 | 435 | 69 | 8 454 | 37 947 | 6 319 | 12 122 | 26 181 | 66 386 | |
| 1954 | 456 | 74 | 7 965 | 31 060 | 6 697 | 13 461 | 24 371 | 56 554 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 496 | 75 | 8 752 | 42 809 | 6 763 | 13 229 | 31 230 | 80 847 | |
| 1958 | 469 | 80 | 9 331 | 41 659 | 7 145 | 13 826 | 29 553 | 78 292 | |
| 1954 ² | 485 | 83 | 8 854 | 34 490 | 7 548 | 15 519 | 27 621 | 68 571 | |
| 1939 ³ | 491 | (NA) | 10 861 | 12 666 | 9 320 | 16 529 | 8 968 | 21 036 | |
| 1929 ⁵ | 416 | (NA) | 14 471 | 18 667 | 13 439 | (NA) | 16 341 | 37 997 | |
| 1919 ⁶ | 468 | (NA) | 15 861 | 18 641 | 14 857 | (NA) | 16 777 | 26 130 | |
| 1909 ⁶ | 1 068 | (NA) | 24 531 | 15 718 | 23 516 | (NA) | 14 436 | 22 914 | |
| 1902 ⁷ | 1 060 | (NA) | 16 876 | 10 044 | 815 418 | (NA) | 8 800 | 17 219 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 27 513 | 583 | 9 594 | 14 120 | 95 561 | 22 537 | 1 314 | 226 | 602 |
| 1958 | 21 181 | 826 | 3 260 | 8 784 | 87 073 | 13 364 | 1 305 | 207 | (NA) |
| 1954 | 16 539 | 2 075 | 2 702 | 6 064 | 78 171 | 5 785 | 1 255 | 187 | 488 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | ¹⁰ 32 782 | (¹⁰) | ¹⁰ 9 597 | ¹¹ 14 287 | 114 809 | ¹¹ 22 704 | ¹¹ 1 314 | 226 | ¹¹ 602 |
| 1958 | ¹⁰ 26 314 | (¹⁰) | ¹⁰ 3 260 | ¹¹ 8 881 | 103 286 | ¹¹ 13 461 | ¹¹ 1 312 | 184 | (NA) |
| 1954 ² | ¹⁰ 18 676 | 2 459 | ¹⁰ 2 869 | ¹¹ 6 160 | ¹² 92 869 | ¹¹ 5 888 | ¹¹ 1 260 | 167 | ¹¹ 494 |
| 1939 ³ | 6 077 | (NA) | 259 | (NA) | 27 372 | (NA) | 786 | 84 | 224 |
| 1929 ⁵ | 9 112 | (NA) | 167 | 1 681 | 47 276 | (NA) | 2 149 | 160 | 166 |
| 1919 ⁶ | 6 819 | 1 | 416 | (NA) | 33 366 | (NA) | ¹² 3 805 | 256 | 100 |
| 1909 ⁶ | 6 985 | 1 472 | 297 | (NA) | 31 668 | (NA) | (NA) | (NA) | 111 |
| 1902 ⁷ | 2 881 | (NA) | 185 | (NA) | 20 285 | (NA) | (NA) | (NA) | 52 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Includes data for one trophol mine in Oklahoma. Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing marble at such operations was \$108 thousand; this value has been included in the value of shipments and value added in mining. The comparable values for limestone and granite are not available.

⁴Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for oil and gas extraction and for common clay and shale operations. There were 17 such clay pits in 1939, with products valued at \$123 thousand, and operations in the crude petroleum and natural gas industries, with products valued at \$59 thousand.

⁶Excludes data for sand, gravel, common clay, and shale operations and for stone quarries operated as parts of cement and lime plants. For 1929, there were 32 such sand and gravel establishments, with products valued at \$3,517 thousand; 3 such glass and moulding sand establishments; and 12 such stone operations with products valued at \$2,055 thousand.

⁷Excludes data for sand, gravel, common clay, and shale operations. Includes data for one cement plant and for lime plants producing lime valued at \$516 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years represents net production and excludes this duplication.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in establishments, and for dimension stone mining operations in manufacture in 1958, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For 1963 and 1958, the figure for the cost of minerals received for preparation is combined with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 10 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 496 | 75 | 8 745 | 42 809 | 6 763 | 13 229 | 31 230 |
| | MINERAL INDUSTRIES | 425 | 66 | 7 728 | 38 226 | 5 818 | 11 259 | 27 128 |
| | INCLUDED IN MANUFACTURES | 71 | 9 | ¹ 1 017 | ¹⁴ 583 | ¹ 945 | 1 970 | 4 102 |
| 10 | METAL MINING | 23 | 5 | 2 502 | 11 838 | 2 064 | 3 269 | 9 001 |
| 1031 | LEAD AND ZINC ORES (LEAD ORES) . . . | 5 | 3 | 1 651 | 6 748 | 1 306 | 1 815 | 4 632 |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL) | 35 | 6 | 1 137 | 6 591 | 415 | 856 | 2 745 |
| 13 | OIL AND GAS EXTRACTION | 22 | 1 | 226 | 1 389 | 28 | 53 | 179 |
| 14 | NONMETALLIC MINERALS MINING. | 416 | 63 | 4 880 | 22 991 | 4 256 | 9 051 | 19 305 |
| | MINERAL INDUSTRIES | 345 | 54 | 3 863 | 18 408 | 3 311 | 7 081 | 15 203 |
| | INCLUDED IN MANUFACTURES | 71 | 9 | ¹ 1 017 | ¹⁴ 583 | ¹ 945 | 1 970 | 4 102 |
| 1421 | CRUSHED AND BROKEN STONE | 182 | 43 | 2 824 | 14 003 | 2 468 | 5 330 | 11 790 |
| | MINERAL INDUSTRY | 171 | 36 | 2 482 | 12 222 | 2 126 | 4 647 | 10 009 |
| | INCLUDED IN MANUFACTURES | 11 | 7 | ¹ 342 | ¹ 1 781 | ¹ 342 | 683 | 1 781 |
| | CRUSHED AND BROKEN LIMESTONE SUB- INDUSTRY: MINERAL SUBINDUSTRY. | 163 | 36 | 2 427 | 12 057 | 2 073 | 4 557 | 9 845 |
| 1441 | SAND AND GRAVEL. | 106 | 9 | 700 | 3 585 | 583 | 1 231 | 3 027 |
| | MINERAL INDUSTRY | 93 | 9 | 679 | 3 512 | 562 | 1 190 | 2 954 |
| | INCLUDED IN MANUFACTURES | 13 | - | 21 | 73 | 21 | 41 | 73 |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY. | 86 | 7 | 552 | 2 798 | 457 | 1 010 | 2 325 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² . . . | 7 | 2 | 115 | 717 | 105 | 180 | 629 |
| | CLAY AND RELATED MINERALS. | 70 | 2 | ¹ 301 | ¹ 1 334 | ¹ 282 | 532 | 1 206 |
| | FIRE CLAY. | 51 | 1 | ¹ 233 | ¹ 1 004 | ¹ 216 | 412 | 896 |
| 1459 | CLAY AND RELATED MINERALS, N.E.C.. | 19 | 1 | ¹ 68 | ¹ 330 | ¹ 66 | 120 | 310 |
| 1472 | CHEMICAL AND FERTILIZER MINERAL MINING (BARITE) | 17 | 5 | ³ 371 | ³ 1 305 | 333 | 698 | 1 179 |
| 1481 | NONMETALLIC MINERALS SERVICES. . . . | 26 | - | 92 | 314 | 88 | 166 | 303 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 80 847 | ⁴ 56 666 | ¹ 114 809 | ⁵ 22 704 | 9 331 | 78 292 | |
| | MINERAL INDUSTRIES | 66 288 | 51 810 | 95 561 | 22 537 | 8 454 | 66 386 | |
| | INCLUDED IN MANUFACTURES | 14 559 | ⁴ 4 856 | ¹ 19 248 | ² 167 | ¹ 877 | 11 906 | |
| 10 | METAL MINING | ⁶ 19 639 | ⁶ 26 856 | ⁶ 32 772 | ⁶ 13 723 | 3 259 | 20 958 | |
| 1031 | LEAD AND ZINC ORES (LEAD ORES) . . . | 13 026 | 4 755 | 15 927 | 1 854 | 2 852 | 17 725 | |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL) | (⁶) | (⁶) | (⁶) | (⁶) | 1 204 | 9 832 | |
| 13 | OIL AND GAS EXTRACTION | 529 | 293 | 737 | 85 | (⁷) | (⁷) | |
| 14 | NONMETALLIC MINERALS MINING. | 60 679 | ⁴ 29 517 | ¹ 81 300 | ⁵ 8 896 | 74 868 | 747 502 | |
| | MINERAL INDUSTRIES | 46 120 | 2 466 | 62 052 | 8 729 | 73 991 | 735 596 | |
| | INCLUDED IN MANUFACTURES | 14 559 | ⁴ 4 856 | ¹ 19 248 | ² 167 | ¹ 877 | 11 906 | |
| 1421 | CRUSHED AND BROKEN STONE | 35 563 | ⁴ 16 973 | ¹ 46 648 | (NA) | 2 350 | 26 963 | |
| | MINERAL INDUSTRY | 27 081 | 15 624 | 36 817 | 5 888 | 1 966 | 18 725 | |
| | INCLUDED IN MANUFACTURES | 8 482 | ⁴ 1 349 | ¹ 9 831 | (NA) | ¹ 384 | 8 238 | |
| | CRUSHED AND BROKEN LIMESTONE SUB- INDUSTRY: MINERAL SUBINDUSTRY. | 26 516 | 15 448 | 36 238 | 5 726 | 1 862 | 18 110 | |
| 1441 | SAND AND GRAVEL. | 10 442 | 4 359 | 13 077 | (NA) | 807 | (NA) | |
| | MINERAL INDUSTRY | 9 830 | 4 262 | 12 368 | 1 724 | 788 | 6 307 | |
| | INCLUDED IN MANUFACTURES | 612 | 97 | 709 | (NA) | 19 | (NA) | |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY. | 7 736 | 3 428 | 9 601 | 1 563 | (NA) | (NA) | |
| | INDUSTRIAL SAND SUBINDUSTRIES ² . . . | 2 094 | 834 | 2 767 | 161 | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS. | 5 208 | ⁴ 2 080 | ¹ 6 746 | (NA) | (NA) | (NA) | |
| | FIRE CLAY. | 4 290 | ⁴ 1 509 | ¹ 5 413 | (NA) | ¹ 318 | 4 424 | |
| 1459 | CLAY AND RELATED MINERALS, N.E.C.. | 918 | ⁴ 571 | ¹ 1 333 | (NA) | ¹ 104 | 991 | |
| 1472 | CHEMICAL AND FERTILIZER MINERAL MINING (BARITE) | 3 779 | 2 719 | 6 184 | 314 | (NA) | (NA) | |
| 1481 | NONMETALLIC MINERALS SERVICES. . . . | 1 169 | 428 | 1 381 | 216 | (NA) | (NA) | |

Footnotes on next page.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

Footnotes for Table 2A

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
 n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C., Subindustries.

³Excludes figures for separately reported central offices and related facilities in the flourspar industry.

⁴For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

⁵Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

⁶Figures for Bituminous Coal Mining are included with those for Metal Mining.

⁷Figures for Oil and Gas Extraction are included with those for Nonmetallic Minerals Mining.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|---------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|---------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. . . | 51 810 | 27 513 | 583 | 9 594 | 14 120 | 22 537 | 8 648 | 13 889 | (X) | (X) | (X) | (X) |
| 10 & 12 | METAL MINING AND BITUMINOUS COAL MINING. | 26 856 | 13 478 | 81 | 6 273 | 7 024 | 13 723 | 8 442 | 5 281 | (X) | (X) | (X) | (X) |
| 1031 | LEAD AND ZINC ORES. | 4 755 | 3 140 | - | 1 358 | 257 | 1 854 | 1 602 | 252 | ³ 3 347 | (D) | - | - |
| 14 | NONMETALLIC MINERALS MINING . | 24 661 | 13 873 | 502 | 3 240 | 7 046 | 8 729 | 187 | 8 542 | (X) | (X) | (X) | (X) |
| 142 | CRUSHED AND BROKEN STONE. . | 15 624 | 8 824 | 298 | 1 634 | 4 868 | 5 888 | 115 | 5 773 | 21 794 | 32 368 | ⁴ 7 045 | ⁴ 10 034 |
| | CRUSHED AND BROKEN LIME-STONE. | 15 448 | 8 710 | 298 | 1 632 | 4 808 | 5 726 | 112 | 5 614 | 21 537 | 31 770 | ⁴ 6 277 | ⁴ 8 890 |
| 144 | SAND AND GRAVEL | 4 262 | 2 127 | 204 | 510 | 1 421 | 1 724 | 40 | 1 684 | 9 693 | ⁵ 12 992 | ⁴ 743 | (5) |
| | CONSTRUCTION SAND AND GRAVEL | 3 428 | 1 450 | 204 | 508 | 1 266 | 1 563 | 22 | 1 541 | 8 648 | (D) | (D) | (D) |
| 147 | CHEMICAL AND FERTILIZER MINERAL. | 2 719 | 1 817 | - | 695 | 207 | 314 | - | 314 | (X) | (X) | (X) | (X) |
| 1472 | BARITE. | 2 719 | 1 817 | - | 695 | 207 | 314 | - | 314 | 308 | 6 162 | - | - |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and uses plant and equipment.

³Represents crude ore mined.

⁴Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

⁵Figures for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 382 | 363 | 80 | 8 | 68 | 4 | 276 | 20 | 231 | 25 | 7 | 19 |
| | NUMBER OF EMPLOYEES..... | 6 814 | 6 102 | 427 | 44 | 378 | 5 | 5 639 | 2 103 | 2 887 | 649 | 36 | 712 |
| | VALUE ADDED IN MINING.....\$1,000.. | 64 655 | 71 127 | 7 587 | 165 | 7 295 | 127 | 63 244 | 17 852 | 37 898 | 7 494 | 296 | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 14 | 10 | - | - | - | - | 9 | 4 | 5 | - | 1 | 4 |
| | NUMBER OF EMPLOYEES..... | 2 478 | 1 888 | - | - | - | - | (D) | (D) | (D) | - | (D) | 590 |
| | VALUE ADDED IN MINING.....\$1,000.. | 9 060 | 15 446 | - | - | - | - | (D) | (D) | (D) | - | (D) | (²) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 35 | 34 | 17 | 7 | 10 | - | 17 | 4 | 13 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 479 | (D) | 118 | (D) | (D) | - | (D) | (D) | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 10 383 | (D) | 2 530 | (D) | (D) | - | (D) | (D) | (D) | - | - | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 319 | 314 | 58 | 1 | 57 | - | 250 | 12 | 213 | 25 | 6 | 5 |
| | NUMBER OF EMPLOYEES..... | 3 762 | 3 734 | (D) | (D) | (D) | - | 3 403 | 222 | 2 532 | 649 | (D) | 28 |
| | VALUE ADDED IN MINING.....\$1,000.. | 45 145 | 45 171 | (D) | (D) | (D) | - | 39 955 | 2 748 | 29 713 | 7 494 | (D) | (²) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 171 | 169 | 10 | - | 10 | - | 156 | 12 | 138 | 6 | 2 | 3 |
| | NUMBER OF EMPLOYEES..... | 2 480 | 2 467 | (D) | - | (D) | - | 2 369 | 222 | 1 750 | 397 | (D) | 13 |
| | VALUE ADDED IN MINING.....\$1,000.. | 27 081 | 27 099 | (D) | - | (D) | - | 25 242 | 2 748 | 19 073 | 3 421 | (D) | (²) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 93 | 92 | 11 | - | 11 | - | 77 | - | 58 | 19 | 4 | 1 |
| | NUMBER OF EMPLOYEES..... | 672 | (D) | 28 | - | 28 | - | (D) | - | (D) | 252 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 9 979 | (D) | 181 | - | 181 | - | (D) | - | (D) | 4 073 | (D) | (D) |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 29 | 29 | 23 | - | 23 | - | 6 | - | 6 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 153 | 153 | 71 | - | 71 | - | 82 | - | 82 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 893 | 2 893 | 2 165 | - | 2 165 | - | 728 | - | 728 | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 17 | 16 | 7 | - | 7 | - | 9 | - | 9 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 371 | (D) | (D) | - | (D) | - | (D) | - | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 779 | (D) | (D) | - | (D) | - | (D) | - | (D) | - | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | | |
|---------------------------------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|----------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining | |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | | |
| | | | | | | | | | | | | | | | (number) |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 14 | ALL MINERAL OPERATIONS | 496 | 75 | 8 752 | 42 809 | 6 763 | 13 229 | 31 230 | 80 847 | 56 666 | 114 809 | (NA) | 9 331 | 78 292 | |
| | MINERAL INDUSTRIES | 425 | 66 | 7 735 | 38 226 | 5 818 | 11 259 | 27 128 | 66 288 | 51 810 | 95 561 | 22 537 | 8 454 | 66 386 | |
| | INCLUDED IN MANUFACTURES ² | 71 | 9 | 1 017 | 4 583 | 945 | 1 970 | 4 102 | 14 559 | 4 856 | 19 248 | (NA) | 877 | 11 906 | |
| | COUNTIES ³ | | | | | | | | | | | | | | |
| | AUDRAIN COUNTY, TOTAL | 9 | - | 37 | 144 | 35 | 64 | 137 | 423 | 274 | 613 | 84 | (NA) | (NA) | |
| | BOONE COUNTY, TOTAL | 6 | 1 | 84 | 568 | 74 | 173 | 514 | 2 356 | 732 | 2 958 | 130 | 58 | (NA) | |
| | CALLAWAY COUNTY, TOTAL | 8 | 1 | 44 | 228 | 36 | 75 | 178 | 1 752 | 338 | 1 836 | 254 | 167 | 1 964 | |
| | CAPE GIRARDEAU COUNTY, TOTAL | 6 | 2 | 92 | 530 | 83 | 186 | 457 | 1 307 | 401 | 1 449 | 259 | (NA) | (NA) | |
| | NONMETALLIC MINERALS MINING | 6 | 2 | 92 | 530 | 83 | 186 | 457 | 1 307 | 401 | 1 449 | 259 | 65 | 464 | |
| | CASS COUNTY, TOTAL | 8 | - | 35 | 117 | 26 | 60 | 81 | 432 | 233 | 605 | 60 | 25 | 265 | |
| | NONMETALLIC MINERALS MINING | 4 | - | 33 | 111 | 25 | 58 | 78 | 398 | 229 | 567 | 60 | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE | 4 | - | 33 | 111 | 25 | 58 | 78 | 398 | 229 | 567 | 60 | (NA) | (NA) | |
| | FRANKLIN COUNTY, TOTAL | 13 | 1 | 68 | 321 | 62 | 118 | 277 | 815 | 446 | 1 148 | 113 | (NA) | (NA) | |
| | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUSHED AND BROKEN STONE | 7 | 1 | 58 | 280 | 53 | 100 | 238 | 673 | 350 | 936 | 87 | (NA) | (NA) | |
| | GASCONADE COUNTY, TOTAL | 16 | 1 | 80 | 358 | 66 | 121 | 274 | 677 | 467 | 1 016 | 128 | (NA) | (NA) | |
| | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CLAY AND RELATED MINERALS | 7 | 1 | 62 | 297 | 50 | 94 | 219 | 483 | 377 | 775 | 85 | (NA) | (NA) | |
| | GREENE COUNTY, TOTAL | 6 | 2 | 83 | 454 | 68 | 152 | 334 | 1 164 | 537 | 1 363 | 338 | 77 | 924 | |
| | NONMETALLIC MINERALS MINING | 6 | 2 | 83 | 454 | 68 | 152 | 334 | 1 164 | 537 | 1 363 | 338 | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE | 3 | 2 | 62 | 356 | 48 | 105 | 240 | 877 | 380 | 984 | 273 | (NA) | (NA) | |
| | HOWELL COUNTY, TOTAL | 6 | - | 51 | 229 | 45 | 101 | 198 | 491 | 378 | 826 | 43 | 48 | 417 | |
| | JACKSON COUNTY, TOTAL | 18 | 9 | 626 | 2 979 | 435 | 861 | 2 084 | 5 031 | 2 330 | 6 681 | 680 | (NA) | (NA) | |
| | JEFFERSON COUNTY, TOTAL | 11 | - | 65 | 352 | 60 | 140 | 317 | 1 082 | 365 | 1 351 | 96 | 66 | 713 | |
| | NONMETALLIC MINERALS MINING | 11 | - | 65 | 352 | 60 | 140 | 317 | 1 082 | 365 | 1 351 | 96 | (NA) | (NA) | |
| | LAFAYETTE COUNTY, TOTAL | 9 | - | 60 | 247 | 55 | 100 | 224 | 577 | 279 | 766 | 90 | 44 | 300 | |
| LIVINGSTON COUNTY, TOTAL | 4 | 2 | 68 | 238 | 49 | 90 | 142 | 391 | 177 | 522 | 46 | (NA) | (NA) | | |
| MONTGOMERY COUNTY, TOTAL | 12 | - | 50 | 216 | 48 | 108 | 211 | 411 | 371 | 677 | 105 | (NA) | (NA) | | |
| NONMETALLIC MINERALS MINING | 12 | - | 50 | 216 | 48 | 108 | 211 | 411 | 371 | 677 | 105 | 54 | 523 | | |
| NODAWAY COUNTY, TOTAL | 4 | - | 37 | 181 | 36 | 74 | 179 | 512 | 333 | 695 | 150 | (NA) | (NA) | | |
| NONMETALLIC MINERALS MINING | 4 | - | 37 | 181 | 36 | 74 | 179 | 512 | 333 | 695 | 150 | (NA) | (NA) | | |
| PETTIS COUNTY, TOTAL | 6 | - | 28 | 174 | 27 | 67 | 171 | 430 | 295 | 568 | 157 | (NA) | (NA) | | |
| ST CHARLES COUNTY, TOTAL | 7 | 3 | 96 | 576 | 79 | 169 | 441 | 1 195 | 350 | 1 421 | 124 | (NA) | (NA) | | |
| NONMETALLIC MINERALS MINING | 7 | 3 | 96 | 576 | 79 | 169 | 441 | 1 195 | 350 | 1 421 | 124 | 91 | 627 | | |
| ST LOUIS COUNTY, TOTAL | 25 | 11 | 535 | 3 577 | 401 | 766 | 2 354 | 7 349 | 4 113 | 9 839 | 1 623 | 476 | (NA) | | |
| NONMETALLIC MINERALS MINING | 17 | 10 | 463 | 2 889 | 385 | 737 | 2 264 | 7 050 | 4 024 | 9 497 | 1 577 | (NA) | (NA) | | |
| CRUSHED AND BROKEN STONE | 7 | 6 | 286 | 1 795 | 236 | 531 | 1 353 | 3 541 | 2 794 | 5 397 | 938 | 210 | 944 | | |
| SAND AND GRAVEL | 10 | 4 | 177 | 1 094 | 149 | 206 | 911 | 3 509 | 1 230 | 4 100 | 639 | 225 | 848 | | |
| ST LOUIS, TOTAL | 8 | 1 | 76 | 406 | 66 | 125 | 339 | 836 | 354 | 1 103 | 87 | 75 | (NA) | | |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 14 142 | SALINE COUNTY, TOTAL | 3 | - | 18 | 160 | 18 | 44 | 160 | 484 | 354 | 706 | 132 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 3 | - | 18 | 160 | 18 | 44 | 160 | 484 | 354 | 706 | 132 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE | 3 | - | 18 | 160 | 18 | 44 | 160 | 484 | 354 | 706 | 132 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 5 | 1 | 75 | 357 | 9 | 21 | 37 | 65 | 33 | 98 | - | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each state. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all states; these reports were classified on the basis of the principal state in which the service was performed. Such reports contained employment on March 15 and other selected data by the state and county. For such operations, the state total figures shown for number of establishments represents the number of reports received which were classified in the state and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| 101 Iron ores | 102 Copper ores | 103 Lead and zinc ores | 104 Gold and silver ores | 105 Bauxite | 106 Ferroalloy ores | 108 Metal mining services | 109 Miscellaneous metal ores | 110 Anthracite | 111 Anthracite mining services | 120 Bituminous coal and lignite | 122 Coal mining services | 131 Crude petroleum and natural gas | 132 Natural gas liquids | 138 Oil and gas field services | 141 Dimension stone | 141M Dimension stone in manufactures | 142 Crushed and broken stone | 142M Crushed and broken stone in manufactures | 144 Sand and gravel | 144M Sand and gravel in manufactures | 145 Clay and related minerals | 145M Clay and related minerals in manufactures | 147 Chemical and fertilizer minerals | 148 Nonmetallic minerals services | 149 Miscellaneous minerals, n.e.c. | 149M Miscellaneous minerals, n.e.c., in manufactures | | | | | |
|--|-----------------|------------------------|---|--------------------------|---|---------------------------|------------------------------|----------------|--------------------------------|---------------------------------|--------------------------|-------------------------------------|-------------------------|--------------------------------|---------------------|--------------------------------------|------------------------------|---|---------------------|--------------------------------------|-------------------------------|--|--------------------------------------|-----------------------------------|------------------------------------|--|------|-----|-----|-----|------|
| State, county, and size class | | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| MISSOURI, TOTAL | | 496 | 425 | 71 | 8 | 1 | 5 | - | - | - | 9 | - | - | - | 35 | - | 14 | - | 8 | 7 | 6 | 171 | 11 | 93 | 3 | 29 | 41 | 17 | 26 | 2 | - |
| NO EMPLOYEES | | 70 | 65 | 5 | - | - | 1 | - | - | - | 1 | - | - | - | 8 | - | 4 | - | 2 | - | - | 15 | - | 22 | 2 | 7 | 3 | 1 | 4 | - | - |
| 1-4 EMPLOYEES | | 162 | 127 | 35 | 2 | - | - | - | - | - | 6 | - | - | - | 12 | - | 7 | - | 4 | 4 | 1 | 35 | 1 | 26 | 10 | 11 | 23 | 3 | 16 | 1 | - |
| 5-9 EMPLOYEES | | 98 | 84 | 14 | 2 | - | - | - | - | - | 2 | - | - | - | 6 | - | - | - | 1 | 2 | 2 | 38 | 1 | 20 | - | 8 | 11 | 2 | 3 | - | - |
| 10-19 EMPLOYEES | | 91 | 83 | 8 | 2 | 1 | 1 | - | - | - | - | - | - | 3 | - | 2 | - | - | 1 | 1 | 1 | 47 | 2 | 16 | 1 | 1 | 4 | 6 | 3 | - | - |
| 20-49 EMPLOYEES | | 51 | 44 | 7 | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | 1 | 1 | 27 | 6 | 8 | - | 2 | - | 2 | - | 1 | - |
| 50-99 EMPLOYEES | | 14 | 14 | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 7 | - | 1 | - | - | - | 3 | - | - | - | - |
| 100-249 EMPLOYEES | | 7 | 6 | 1 | 1 | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 500-999 EMPLOYEES | | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1000 EMPLOYEES AND OVER | | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ADAIR COUNTY, TOTAL | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ANDREW COUNTY, TOTAL | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| ATCHISON COUNTY, TOTAL | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| AUDRAIN COUNTY, TOTAL | | 16 | 9 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 2 | - | 1 | - | 2 | 7 | 2 | - | - | - |
| 0-19 EMPLOYEES | | 16 | 9 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 2 | - | 1 | - | 2 | 7 | 2 | - | - | - |
| BARRY COUNTY, TOTAL | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| BARTON COUNTY, TOTAL | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| BATES COUNTY, TOTAL | | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 1 | - | 2 | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 3 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| BENTON COUNTY, TOTAL | | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| BOONE COUNTY, TOTAL | | 9 | 6 | 3 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 3 | - | 1 | - | 2 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | | 8 | 5 | 3 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | - | 1 | - | 2 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BUCHANAN COUNTY, TOTAL | | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| BUTLER COUNTY, TOTAL | | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| CALDWELL COUNTY, TOTAL | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CALLAWAY COUNTY, TOTAL | | 13 | 8 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | 3 | 4 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | | 12 | 7 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 3 | 4 | 2 | - | - | - | - |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CAMDEN COUNTY, TOTAL | | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| CAPE GIRARDEAU COUNTY, TOTAL | | 10 | 6 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 2 | - | 2 | 3 | - | - | - | - |
| 0-19 EMPLOYEES | | 7 | 4 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 2 | 3 | - | - | - | - |
| 20-99 EMPLOYEES | | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - |
| CARROLL COUNTY, TOTAL | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CASS COUNTY, TOTAL | | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | 8 | - | 2 | - | 2 | - | - | 4 | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | 4 | - | - | - | 1 | - | - | - | - | - |
| CEDAR COUNTY, TOTAL | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued**

[illegible]

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in man- u- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| ST CLAIR COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ST FRANCOIS COUNTY, TOTAL | 8 | 7 | 1 | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ST LOUIS COUNTY, TOTAL | 34 | 25 | 9 | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 3 | - | - | 7 | 2 | 10 | 3 | - | 4 | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 14 | 8 | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | 3 | - | - | 1 | 1 | 6 | 3 | - | 4 | - | - | - | - |
| 20-99 EMPLOYEES | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 6 | 1 | 4 | - | - | - | - | - | - | - |
| ST LOUIS, TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 4 | - | - | - | - | 2 | 1 | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | - | - | 2 | 1 | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| STE GENEVIEVE COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND MORE | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| SALINE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| SCOTT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SHANNON COUNTY, TOTAL | 5 | 5 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SHELBY COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - |
| STODDARD COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| STONE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| SULLIVAN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| TANEY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| TEXAS COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| VERNON COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 2 | - | 3 | 1 | - | 1 | - | - | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 2 | - | 3 | 1 | - | 1 | - | - | - | - | - | - | 1 | - | - |
| WARREN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 16 | 16 | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WAYNE COUNTY, TOTAL | 4 | 3 | 1 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| WRIGHT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 5 | 5 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

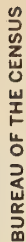
Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosure.

(NA) Not available.

(X) Not applicable.

RANK AMONG STATES
EMPLOYMENT - 22
VALUE OF SHIPMENT - 21

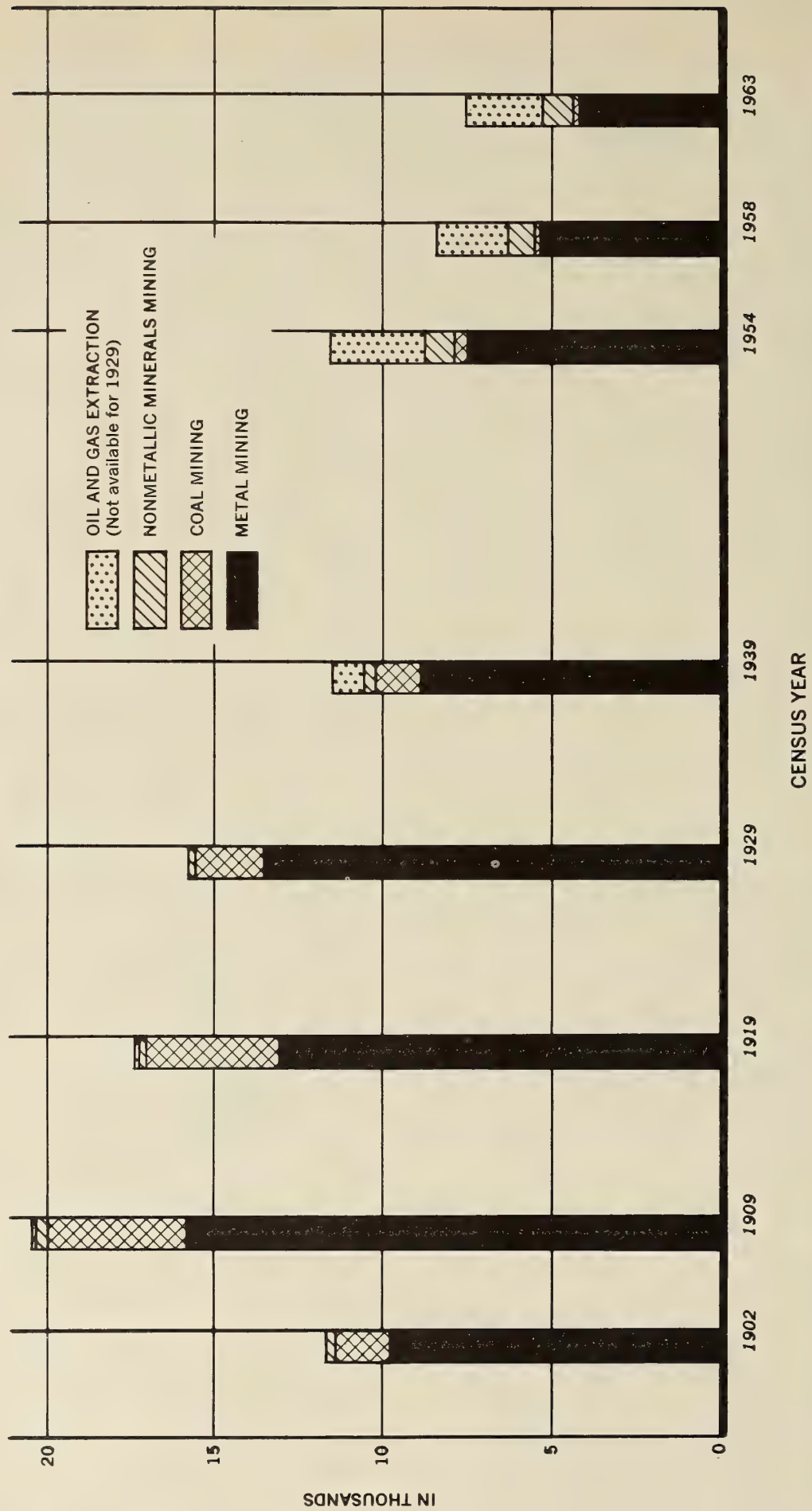


U. S. DEPARTMENT OF COMMERCE

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

MONTANA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|--|----------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 416 | 40 | 7 563 | 47 065 | 6 105 | 12 552 | 35 353 | 111 023 | |
| 1958. | 440 | 39 | 8 448 | 44 116 | 5 824 | 10 994 | 27 859 | 115 932 | |
| 1954. | 578 | 55 | 11 568 | 51 624 | 8 899 | 17 406 | 36 839 | 182 867 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 427 | 40 | 7 592 | 47 222 | 6 134 | 12 608 | 35 510 | 112 084 | |
| 1958. | 453 | 39 | 8 490 | 44 295 | 5 866 | 11 073 | 28 038 | 116 993 | |
| 1954 ² | 583 | 56 | 11 605 | 51 764 | 8 936 | 17 478 | 36 979 | 183 942 | |
| 1939 ³ | 499 | (NA) | 11 599 | 17 722 | 10 291 | 19 862 | 14 701 | 34 865 | |
| 1919 ⁵ | 295 | (NA) | 17 368 | 28 724 | 16 392 | (NA) | 26 164 | 37 040 | |
| 1909 ⁵ | 647 | (NA) | 20 451 | 23 690 | 19 570 | (NA) | 22 167 | 27 498 | |
| 1902 ⁶ | 410 | (NA) | 11 707 | 13 401 | 11 059 | (NA) | 12 405 | 22 852 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 192 | 11 | 5 315 | 32 867 | 4 467 | 8 947 | 25 559 | 39 803 | |
| 1958. | 221 | 19 | 6 300 | 31 162 | 4 598 | 8 509 | 21 339 | 46 754 | |
| 1954 ² | 291 | 27 | 8 864 | 38 641 | 7 049 | 13 324 | 28 587 | 151 096 | |
| 1939 ³ | 4305 | (NA) | 10 637 | 16 348 | 9 552 | 18 518 | 13 649 | 28 509 | |
| 1929 ⁸ | 205 | (NA) | 15 896 | 29 528 | 15 044 | (NA) | 26 302 | 54 052 | |
| 1919 ⁹ | 290 | (NA) | 17 320 | 28 652 | 16 354 | (NA) | 26 106 | 36 842 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ¹¹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation ¹⁰ (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 35 839 | 37 421 | 29 596 | 42 304 | 189 523 | 66 660 | 2 918 | 478 | 537 |
| 1958. | 29 674 | 33 014 | 17 631 | 7 466 | 180 292 | 23 425 | 2 879 | 494 | (NA) |
| 1954. | 26 025 | 35 711 | 24 074 | 10 554 | 147 547 | 31 680 | 2 504 | 281 | 538 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ¹² 35 962 | 37 421 | ¹² 29 596 | ¹³ 42 304 | 190 707 | ¹³ 66 660 | ¹³ 2 918 | 478 | ¹³ 537 |
| 1958. | ¹² 29 822 | 33 014 | ¹² 17 631 | ¹³ 7 466 | 181 501 | ¹² 23 425 | ¹² 2 879 | 491 | (NA) |
| 1954 ² | ¹² 26 150 | 35 711 | ¹² 24 074 | ¹³ 10 554 | 148 747 | ¹³ 31 680 | ¹² 2 504 | 280 | ¹³ 538 |
| 1939 ³ | 9 253 | (NA) | 583 | (NA) | 44 701 | (NA) | 1 237 | 120 | 230 |
| 1919 ⁵ | 12 689 | 62 | 133 | (NA) | 49 924 | (NA) | ¹⁴ 2 822 | 172 | 147 |
| 1909 ⁵ | 20 430 | 6 560 | 504 | (NA) | 54 992 | (NA) | (NA) | (NA) | 179 |
| 1902 ⁶ | 5 283 | (NA) | 130 | (NA) | 28 265 | (NA) | (NA) | (NA) | 67 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ¹⁵ 20 637 | ¹⁶ 36 415 | ¹² 8 707 | ¹³ 31 326 | 96 887 | ¹³ 40 001 | ¹³ 1 275 | 287 | ¹³ 321 |
| 1958. | ¹⁵ 16 548 | ¹⁶ 32 161 | ¹² 2 184 | ¹³ 2 341 | 93 904 | ¹³ 6 084 | ¹³ 1 349 | 293 | (NA) |
| 1954 ² | ¹² 15 408 | 35 560 | ¹² 3 819 | ¹³ 4 241 | 103 012 | ¹³ 7 108 | ¹³ 1 256 | 178 | ¹³ 361 |
| 1939 ³ | 8 740 | (NA) | 131 | (NA) | 37 380 | (NA) | 796 | 83 | 205 |
| 1929 ⁸ | 10 821 | (NA) | 310 | 1 374 | 65 183 | (NA) | ¹⁴ 1 390 | 92 | 208 |
| 1919 ⁹ | 12 631 | 62 | 131 | (NA) | 49 666 | (NA) | ¹⁴ 2 613 | 160 | 146 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes figures for the Uranium-Radium-Vanadium Ores Industry. Not data on value of shipments were obtained for this industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Excludes data for dimension stone dressing plants, if any, operated in conjunction with 2 dimension stone quarries. For "All operations" excludes data for one or two oil and gas field hauling operations, with receipts for services amounting to less than \$417 thousand; such operations were not classified in the mineral industries after 1939. For "Excluding oil and gas extraction industries" includes data for one natural gas liquids plant.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand and gravel operations. In 1939, there were 7 such mines with products valued at \$338 thousand. See also footnote 8. Also, for 1919 and 1909, excludes data for any stone quarries operated as part of cement or lime establishments.

⁶Includes data for lime plants producing lime valued at \$9 thousand. See also footnote 5.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Excludes data for common clay and shale operations. There were only 2 such

mines in 1939.

⁹Only one nonproducing establishment was reported in the Crude Petroleum and Natural Gas Industry in 1909 and none in 1902. Hence, the figures shown above for "All operations" are essentially comparable with those shown for operations "Excluding oil and gas extraction industries." See also footnote 6.

¹⁰For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants, but for 1954 includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of "Minerals received for preparation." For all other years the figures represent net production and exclude this duplication.

¹²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹³Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁴Excludes purchased electric energy. For 1939, the quantity of purchased electric energy amounted to 27 percent of the total kwh equivalent of energy used; and for the operations shown for 1929, to 23 percent.

¹⁵Includes the cost of minerals received for preparation in the Nonmetallic Minerals Mining Industries, and for 1963, in the Bituminous Coal Industry. See also footnote 12.

¹⁶Represents only minerals received in the Metal Mining Industries for 1963 and 1958 and in the Bituminous Coal and Lignite Mining Industries for 1958.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 427 | 40 | 7 592 | 47 222 | 6 134 | 12 608 | 35 510 |
| | MINERAL INDUSTRIES. | 416 | 40 | 7 563 | 47 065 | 6 105 | 12 552 | 35 353 |
| | INCLUDED IN MANUFACTURES. | 11 | - | ¹ 29 | ¹ 157 | ¹ 29 | 56 | 157 |
| 10 | METAL MINING. | 80 | 7 | 4 296 | 27 106 | 3 544 | 7 045 | 20 403 |
| 1021 | COPPER ORES. | 13 | 3 | 3 571 | 23 420 | 2 915 | 5 900 | 17 389 |
| 1031 | LEAD AND ZINC ORES. | 13 | 2 | 537 | 2 885 | 489 | 863 | 2 404 |
| 106 | FERROALLOY ORES. | 8 | 1 | 68 | 300 | 43 | 91 | 181 |
| 12 | BITUMINOUS COAL AND LIGNITE MINING. . . | 30 | - | 82 | (²) | 76 | (²) | (²) |
| 13 | OIL AND GAS EXTRACTION. | 235 | 29 | 2 277 | 14 355 | 1 667 | 3 661 | 9 951 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . . | 158 | 14 | 1 110 | 7 787 | 667 | 1 301 | 4 230 |
| | CRUDE PETROLEUM. | 149 | 12 | 990 | 7 140 | 559 | 1 110 | 3 639 |
| | NATURAL GAS. | 9 | 2 | 120 | 647 | 108 | 191 | 591 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 30 | 9 | 717 | 4 768 | 666 | 1 618 | 4 159 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C.. | 35 | 5 | 346 | 1 369 | 257 | 602 | 1 235 |
| 14 | NONMETALLIC MINERALS MINING | 82 | 4 | 937 | ² 5 761 | 847 | ² 1 902 | ² 5 156 |
| | MINERAL INDUSTRIES. | 71 | 4 | 908 | ² 5 604 | 818 | ² 1 846 | ² 4 999 |
| | INCLUDED IN MANUFACTURES. | 11 | - | ¹ 29 | ¹ 157 | ¹ 29 | 56 | 157 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 8 | - | 41 | 212 | 31 | 54 | 164 |
| | CRUSHED AND BROKEN STONE, N.E.C.. | 5 | - | 33 | 173 | 24 | 38 | 126 |
| 1441 | SAND AND GRAVEL | 47 | - | ¹ 191 | ¹ 914 | ¹ 175 | 348 | 857 |
| | MINERAL INDUSTRY. | 43 | - | 185 | 881 | 169 | 336 | 824 |
| 147 | CHEMICAL AND FERTILIZER MINERALS. . . | 6 | 3 | 477 | 3 027 | 424 | 900 | 2 623 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 9 | 1 | 197 | 1 160 | 186 | 412 | 1 083 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS. | 112 084 | ³ 145 283 | ¹ 190 707 | (NA) | 8 490 | 116 993 |
| | MINERAL INDUSTRIES. | 111 023 | 145 160 | 189 523 | 66 660 | 8 448 | 115 932 |
| | INCLUDED IN MANUFACTURES. | 1 061 | ³ 123 | ¹ 184 | (NA) | ¹ 42 | 1 061 |
| 10 | METAL MINING. | 28 357 | 88 244 | 82 172 | 34 429 | 5 356 | 34 330 |
| 1021 | COPPER ORES. | 23 482 | 81 212 | 71 040 | 33 654 | 3 685 | 20 413 |
| 1031 | LEAD AND ZINC ORES. | 3 664 | 5 996 | 9 588 | 72 | 596 | 4 191 |
| 106 | FERROALLOY ORES. | 450 | 484 | (D) | (D) | (NA) | (NA) |
| 12 | BITUMINOUS COAL AND LIGNITE MINING. . . | (²) | (²) | (²) | (²) | 177 | 1 106 |
| 13 | OIL AND GAS EXTRACTION. | 72 281 | 48 198 | 93 820 | 26 659 | 2 190 | 70 239 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . . | 59 045 | 39 364 | 73 930 | 24 479 | 1 597 | 63 121 |
| | CRUDE PETROLEUM. | 58 092 | 38 563 | 72 752 | 23 903 | 1 467 | 61 790 |
| | NATURAL GAS. | 953 | 801 | 1 178 | 576 | 130 | 1 331 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 9 575 | 6 947 | 14 595 | 1 927 | (NA) | (NA) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C.. | 2 453 | 648 | 2 991 | 110 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | ² 11 446 | ³ 8 841 | ¹ 24 715 | (NA) | 767 | 11 318 |
| | MINERAL INDUSTRIES. | ² 10 385 | 8 718 | ² 13 531 | ² 5 572 | 725 | 10 257 |
| | INCLUDED IN MANUFACTURES. | 1 061 | ³ 123 | ¹ 184 | (NA) | ¹ 42 | 1 061 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY. | 635 | 268 | 785 | 118 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C.. | 384 | 211 | 515 | 80 | (NA) | (NA) |
| 1441 | SAND AND GRAVEL | 2 176 | ³ 1 277 | ¹ 2 942 | (NA) | ¹ 202 | 3 664 |
| | MINERAL INDUSTRY. | 2 036 | 1 258 | 2 783 | 511 | 192 | 3 467 |
| 147 | CHEMICAL AND FERTILIZER MINERALS. . . | 4 563 | 5 628 | 5 848 | 4 343 | 359 | 4 899 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 2 254 | 1 252 | 2 967 | 539 | 134 | 1 498 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Figures for Bituminous Coal and Lignite Mining are included with those for Nonmetallic Minerals Mining.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 145 160 | 35 839 | 37 421 | 29 596 | 42 304 | 66 660 | 20 060 | 46 600 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 88 244 | 17 091 | 36 415 | 5 960 | 28 778 | 34 429 | 542 | 33 887 | (x) | (x) | (x) | (x) |
| 1021 | COPPER ORES | 81 212 | 14 845 | 32 212 | 5 645 | 28 510 | 33 654 | 179 | 33 475 | ³ 8 150 | 40 887 | (NA) | (D) |
| 1031 | LEAD AND ZINC ORES. | 5 996 | 1 770 | 4 203 | 9 | 14 | 72 | 21 | 51 | ³ 1 213 | (D) | (NA) | (D) |
| 13 | OIL AND GAS EXTRACTION. . . . | 48 198 | ⁴ 16 331 | (⁴) | 20 889 | 10 978 | 26 659 | 18 823 | 7 836 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 39 364 | 10 532 | - | 19 224 | 9 608 | 24 479 | 18 820 | 5 659 | (x) | 73 778 | (x) | 213 |
| | CRUDE PETROLEUM | 38 563 | 10 279 | - | 18 757 | 9 527 | 23 903 | 18 485 | 5 418 | ⁵ 29 370 | 71 976 | ⁵ 100 | 242 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 6 947 | 4 212 | - | 1 499 | 1 236 | 1 927 | 3 | 1 924 | (x) | ⁶ 14 234 | (x) | (⁶) |
| 147 | NONMETALLIC MINERALS MINING: CHEMICAL AND FERTILIZER MINERALS | 5 628 | 1 426 | - | 2 549 | 1 653 | 4 343 | 647 | 3 696 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents crude ore mined, hence, not directly comparable with the value of net shipments of ores and concentrates shown in succeeding columns.⁴Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁵Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 338 | 287 | 212 | 45 | 22 | 145 | 68 | 15 | 43 | 10 | 7 | 51 |
| | NUMBER OF EMPLOYEES..... | 5 966 | 5 861 | 4 532 | 404 | 37 | 4 091 | 666 | 147 | 409 | 110 | 663 | 105 |
| | VALUE ADDED IN MINING.....\$1,000.. | 97 946 | 99 760 | 86 169 | 3 178 | 659 | 82 332 | 7 559 | 1 186 | 5 216 | 1 157 | 6 032 | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 78 | 46 | 35 | 28 | 5 | 2 | 7 | 5 | 1 | 1 | 4 | 32 |
| | NUMBER OF EMPLOYEES..... | 3 884 | 3 816 | 3 106 | (D) | 10 | (D) | 65 | (D) | (D) | (D) | 645 | 68 |
| | VALUE ADDED IN MINING.....\$1,000.. | 28 078 | 28 248 | 22 226 | (D) | 150 | (D) | 515 | (D) | (D) | (D) | 5 507 | (²) |
| 102 | COPPER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 13 | 9 | 6 | 5 | - | 1 | 1 | 1 | - | - | 2 | 4 |
| | NUMBER OF EMPLOYEES..... | 3 193 | 3 180 | 2 688 | (D) | - | (D) | (D) | (D) | - | - | (D) | 13 |
| | VALUE ADDED IN MINING.....\$1,000.. | 23 494 | 23 460 | 19 086 | (D) | - | (D) | (D) | (D) | - | - | (D) | 34 |
| 103 | LEAD AND ZINC ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 13 | 10 | 9 | 8 | - | 1 | - | - | - | - | 1 | 3 |
| | NUMBER OF EMPLOYEES..... | 537 | 536 | (D) | (D) | - | (D) | - | - | - | - | (D) | 1 |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 664 | 3 671 | (D) | (D) | - | (D) | - | - | - | - | (D) | (²) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 160 | 145 | 143 | - | - | 143 | - | - | - | - | 2 | 15 |
| | NUMBER OF EMPLOYEES..... | 1 097 | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 59 527 | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 158 | 143 | 143 | - | - | 143 | - | - | - | - | - | 15 |
| | NUMBER OF EMPLOYEES..... | 1 082 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 59 028 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 70 | 67 | 15 | 2 | 13 | - | 52 | 3 | 40 | 9 | - | 3 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | (D) | - | (D) | (D) | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | (D) | - | (D) | (D) | (D) | (D) | - | (D) |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 6 | 5 | 1 | 1 | - | - | 4 | 2 | 1 | 1 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 477 | (D) | (D) | (D) | - | - | 153 | (D) | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 563 | (D) | (D) | (D) | - | - | 1 893 | (D) | (D) | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 427 | 40 | 7 592 | 47 222 | 6 134 | 12 608 | 35 510 | 112 084 | 145 283 | 190 707 | (NA) | 8 490 | 116 993 |
| | MINERAL INDUSTRIES | 416 | 40 | 7 563 | 47 065 | 6 105 | 12 552 | 35 353 | 111 023 | 145 160 | 189 523 | 66 660 | 8 448 | 115 932 |
| | INCLUDED IN MANUFACTURES ² | 11 | - | 29 | 157 | 29 | 56 | 157 | 1 061 | 123 | 1 184 | (NA) | 42 | 1 061 |
| | COUNTIES ³ : | | | | | | | | | | | | | |
| | BLAINE COUNTY, TOTAL | 8 | - | 15 | 108 | 13 | 24 | 79 | 506 | 252 | 546 | 212 | 30 | (NA) |
| | CARBON COUNTY, TOTAL | 22 | 1 | 64 | 410 | 53 | 116 | 353 | 7 129 | 2 924 | 9 295 | 758 | 34 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 8 | - | 11 | 88 | 8 | 17 | 69 | 6 761 | 2 629 | 8 698 | 692 | (NA) | (NA) |
| | DAWSON COUNTY, TOTAL | 35 | 3 | 243 | 1 604 | 177 | 436 | 1 079 | 6 075 | 3 665 | 8 243 | 1 497 | 179 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 9 | 1 | 54 | 433 | 7 | 16 | 50 | 3 739 | 2 048 | 4 632 | 1 155 | (NA) | (NA) |
| | FALLON COUNTY, TOTAL | 28 | 7 | 401 | 2 383 | 297 | 708 | 1 917 | 26 097 | 16 262 | 27 906 | 14 453 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 28 | 7 | 401 | 2 383 | 297 | 708 | 1 917 | 26 097 | 16 262 | 27 906 | 14 453 | 161 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 9 | 2 | 92 | 633 | 75 | 141 | 501 | 22 176 | 13 588 | 21 975 | 13 789 | (NA) | (NA) |
| | GLACIER COUNTY, TOTAL. | 56 | 4 | 253 | 1 464 | 204 | 377 | 1 078 | 4 941 | 4 217 | 7 609 | 1 549 | 280 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 36 | 4 | 176 | 1 158 | 133 | 260 | 807 | 4 163 | 3 159 | 5 798 | 1 524 | 242 | (NA) |
| | LIBERTY COUNTY, TOTAL. | 13 | - | 16 | 63 | 15 | 28 | 51 | 236 | 920 | 768 | 388 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 7 | - | 6 | 28 | 5 | 10 | 22 | 141 | 866 | 634 | 373 | (NA) | (NA) |
| | MUSSELSHELL COUNTY, TOTAL. | 34 | 2 | 144 | 736 | 129 | 256 | 639 | 3 509 | 1 495 | 4 673 | 331 | 201 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 27 | 2 | 115 | 657 | 102 | 217 | 562 | 3 341 | 1 412 | 4 448 | 305 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 12 | - | 30 | 191 | 26 | 50 | 156 | 2 329 | 753 | 2 883 | 199 | 34 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 15 | 2 | 85 | 466 | 76 | 167 | 406 | 1 012 | 659 | 1 565 | 106 | 43 | (NA) |
| | PONDERA COUNTY, TOTAL. | 18 | - | 25 | 121 | 23 | 40 | 101 | 275 | 503 | 519 | 259 | 28 | (NA) |
| | RICHLAND COUNTY, TOTAL | 12 | - | 28 | 115 | 27 | 56 | 107 | 1 741 | 1 028 | 1 290 | 1 479 | 23 | (NA) |
| | ROOSEVELT COUNTY, TOTAL. | 28 | 3 | 120 | 842 | 90 | 218 | 566 | 7 227 | 2 011 | 7 907 | 1 331 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 28 | 3 | 120 | 842 | 90 | 218 | 566 | 7 227 | 2 011 | 7 907 | 1 331 | 134 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 13 | 2 | 56 | 403 | 35 | 68 | 212 | 6 625 | 1 540 | 6 905 | 1 260 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 15 | 1 | 64 | 439 | 55 | 150 | 354 | 602 | 471 | 1 002 | 71 | (NA) | (NA) |
| | ROSEBUD COUNTY, TOTAL. | 19 | 1 | 59 | 389 | 53 | 101 | 338 | 3 826 | 1 653 | 5 205 | 274 | 74 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 9 | 1 | 35 | 254 | 30 | 59 | 222 | 3 546 | 1 388 | 4 712 | 222 | (NA) | (NA) |
| | SHERIDAN COUNTY, TOTAL | 23 | 1 | 84 | 599 | 77 | 189 | 508 | 2 184 | 2 024 | 3 556 | 652 | 64 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 9 | - | 13 | 92 | 10 | 21 | 51 | 1 177 | 1 410 | 2 179 | 408 | (NA) | (NA) |
| | TETON COUNTY, TOTAL. | 15 | - | 19 | 107 | 18 | 30 | 100 | 395 | 403 | 727 | 71 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 15 | - | 19 | 107 | 18 | 30 | 100 | 395 | 403 | 727 | 71 | 13 | (NA) |
| | TOOLE COUNTY, TOTAL. | 81 | 2 | 170 | 843 | 143 | 266 | 703 | 1 487 | 2 801 | 3 217 | 1 071 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 63 | 1 | 112 | 557 | 89 | 169 | 433 | 869 | 2 354 | 2 254 | 969 | 131 | (NA) |
| | YELLOWSTONE COUNTY, TOTAL. | 38 | 8 | 583 | 3 850 | 286 | 555 | 1 634 | 494 | 3 356 | 3 274 | 576 | 726 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 29 | 8 | 528 | 3 591 | 232 | 450 | 1 377 | (4) | 3 019 | 2 368 | 470 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 18 | 7 | 409 | 3 018 | 125 | 247 | 885 | (4) | 2 291 | 652 | 304 | 649 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | 1 | 119 | 573 | 107 | 203 | 492 | 1 154 | 728 | 1 716 | 166 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 41 | 2 | 165 | 826 | 134 | 265 | 607 | 1 292 | 1 289 | 2 365 | 216 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 41 | 2 | 165 | 826 | 134 | 265 | 607 | 1 292 | 1 289 | 2 365 | 216 | 286 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 4 | - | 9 | 60 | 6 | 11 | 40 | (4) | 613 | 443 | 101 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 37 | 2 | 156 | 766 | 128 | 254 | 567 | 1 361 | 676 | 1 922 | 115 | 223 | (NA) |

Footnotes on next page.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

Footnotes for Table 3

Note: For 1963, county industry detail for total employment and payroll may not add to county totals because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed value of shipments and capital expenditures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| MONTANA, TOTAL | 427 | 416 | 11 | 1 | 13 | 13 | 42 | - | 8 | 2 | 1 | - | - | 30 | - | 158 | 2 | 75 | 1 | - | 8 | 3 | 43 | 4 | 3 | 2 | 6 | 1 | 9 | 2 |
| NO EMPLOYEES | 114 | 113 | 1 | 1 | 2 | 7 | 15 | - | 2 | - | 1 | - | - | 9 | - | 55 | - | 5 | - | - | 1 | 1 | 11 | - | - | - | - | - | - | - |
| 1-4 EMPLOYEES | 203 | 194 | 9 | - | 6 | 2 | 22 | - | 2 | 1 | - | - | - | 16 | - | 83 | 1 | 34 | 1 | - | 4 | 1 | 18 | 4 | 1 | 2 | 1 | - | 2 | 2 |
| 5-9 EMPLOYEES | 34 | 34 | - | - | - | 2 | 3 | - | - | - | - | - | - | 4 | - | 5 | - | 6 | - | - | 1 | - | 9 | - | - | - | - | 1 | 2 | - |
| 10-19 EMPLOYEES | 36 | 35 | 1 | - | 2 | - | 2 | - | - | 2 | - | - | - | 1 | 1 | 1 | 1 | 15 | - | - | 2 | 1 | 5 | - | - | - | 2 | - | 2 | - |
| 20-49 EMPLOYEES | 22 | 22 | - | - | 1 | - | 2 | - | - | 1 | 1 | - | - | - | - | 7 | - | 11 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 50-99 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 3 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 100-249 EMPLOYEES | 4 | 4 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 250-499 EMPLOYEES | 3 | 3 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 1000 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BEAVERHEAD COUNTY, TOTAL | 14 | 14 | - | - | - | 1 | 5 | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | - | 1 | - | 2 | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | 1 | 5 | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| BIG HORN COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 10 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 10 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| BLAINE COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| BROADWATER COUNTY, TOTAL | 4 | 4 | - | 1 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | 1 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CARBON COUNTY, TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 8 | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 8 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| CARTER COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| CASCADE COUNTY, TOTAL | 15 | 14 | 1 | - | - | - | 1 | - | - | - | - | - | - | 4 | - | - | - | 1 | - | - | 2 | - | 6 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 14 | 1 | - | - | - | 1 | - | - | - | - | - | - | 4 | - | - | - | 1 | - | - | 2 | - | 6 | - | - | 1 | - | - | - | - |
| CHOUTEAU COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| CUSTER COUNTY, TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DANIELS COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DAWSON COUNTY, TOTAL | 35 | 35 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 9 | - | 21 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 32 | 32 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 8 | - | 19 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| DEER LODGE COUNTY, TOTAL | 12 | 12 | - | - | 2 | 2 | 4 | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | 1 | 1 | 4 | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FALLON COUNTY, TOTAL | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | 1 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 1 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| FERGUS COUNTY, TOTAL | 8 | 6 | 2 | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 1 | 2 |
| 0-19 EMPLOYEES | 8 | 6 | 2 | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | 1 | 2 |
| FLATHEAD COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | 1 | - | - | - | - | - | - |
| GALLATIN COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | 1 | 1 | - | - | - | - | - | 1 | - |
| GARFIELD COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| GLACIER COUNTY, TOTAL | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 1 | 17 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | 1 | 17 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | | | | | | | |

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------|--|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral industries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WIBAUX COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| YELLOWSTONE COUNTY, TOTAL | 40 | 38 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | 18 | - | 11 | - | - | - | - | 6 | 1 | 1 | 1 | - | - | 1 | - |
| 0-19 EMPLOYEES | 32 | 30 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | 11 | - | 10 | - | - | - | - | 6 | 1 | 1 | 1 | - | - | 1 | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 41 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 37 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 39 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 35 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

NEBRASKA

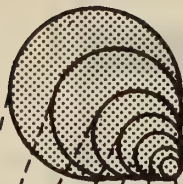
RANK AMONG STATES

EMPLOYMENT - 37

VALUE OF SHIPMENT - 30

EMPLOYMENT

8000 - 12000
4000 - 7999
2000 - 3999
1000 - 1999
500 - 999
200 - 499
25 - 199



SCALE
0 10 20 30 40 50 MILES

BUREAU OF THE CENSUS

U. S. DEPARTMENT OF COMMERCE

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEBRASKA

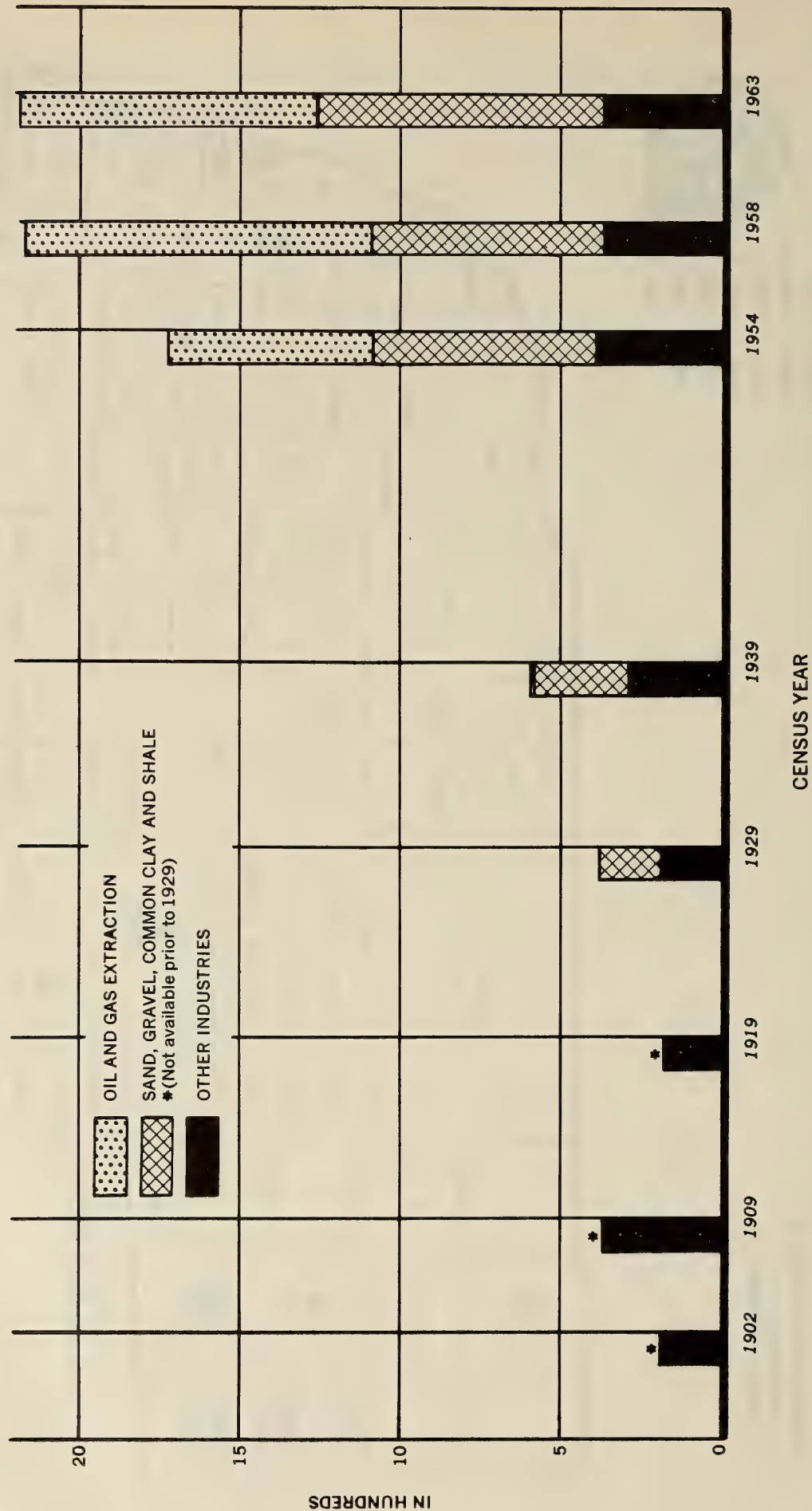


TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 370 | 21 | 2 125 | 11 173 | 1 714 | 3 775 | 8 642 | 69 319 |
| 1958. | 305 | 27 | 2 082 | 9 151 | 1 719 | 3 435 | 7 204 | 64 037 |
| 1954. | 249 | 21 | 1 636 | 6 633 | 1 433 | 3 253 | 5 735 | 29 222 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | 379 | 22 | 2 197 | 11 570 | 1 786 | 3 919 | 9 039 | 70 619 |
| 1958. | 317 | 29 | 2 181 | 9 571 | 1 818 | 3 629 | 7 624 | 65 871 |
| 1954 ¹ | 259 | 22 | 1 734 | 6 960 | 1 531 | 3 450 | 6 062 | 30 082 |
| 1939 ² | 367 | (NA) | 531 | 451 | 470 | 1 041 | 365 | 930 |
| 1929 ⁴ | 24 | (NA) | 347 | 677 | 279 | (NA) | 481 | 1 749 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS: | | | | | | | | |
| 1963. | 210 | 17 | 1 300 | 7 376 | 1 062 | 2 229 | 5 748 | 61 747 |
| 1958. | 186 | 22 | 1 454 | 6 737 | 1 195 | 2 386 | 5 260 | 59 713 |
| 1954. | 119 | 14 | 1 033 | 4 429 | 902 | 1 905 | 3 778 | 25 082 |
| 1939 ² | 321 | (NA) | 232 | 199 | 211 | 479 | 173 | 444 |
| 1929 ⁵ | 6 | (NA) | 157 | 242 | 137 | (NA) | 182 | 364 |
| 1919 ⁶ | 9 | (NA) | 181 | 193 | 162 | (NA) | 166 | 211 |
| 1909 ⁶ | 18 | (NA) | 372 | 187 | 352 | (NA) | 170 | 260 |
| 1902. | 336 | (NA) | 190 | 104 | 7178 | (NA) | 96 | 137 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|----------------------------------|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | ⁹ 14 935 | (⁹) | 9 654 | 4 555 | 87 813 | 10 650 | 1 578 | 921 | 255 |
| 1958. | ⁹ 14 601 | (⁹) | 11 521 | 5 322 | 81 168 | 14 313 | 1 457 | 848 | (NA) |
| 1954. | ⁹ 6 928 | (⁹) | 8 659 | 8 395 | 36 817 | 16 387 | 692 | 483 | 158 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ⁹ 10 ¹⁵ 154 | (⁹) | 10 ⁹ 654 | 11 ⁴ 555 | 89 332 | 11 ¹⁰ 650 | 11 ¹ 578 | 921 | 11 ²⁵⁵ |
| 1958. | ⁹ 10 ¹⁴ 852 | (⁹) | 10 ¹¹ 521 | 11 ⁵ 322 | 83 253 | 11 ¹⁴ 313 | 11 ¹ 457 | 801 | (NA) |
| 1954 ¹ | ⁹ 10 ⁷ 651 | (⁹) | 10 ⁸ 659 | 11 ⁶ 395 | 38 400 | 11 ¹⁶ 387 | 11 ⁶ 692 | 452 | 11 ¹⁵⁸ |
| 1939 ² | 348 | (NA) | 73 | (NA) | 1 351 | (NA) | 56 | 119 | 16 |
| 1929 ⁴ | 386 | (NA) | 5 | 140 | 2 140 | (NA) | 38 | 136 | 11 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS: | | | | | | | | | |
| 1963. | ⁹ 10 ¹² 510 | (⁹) | 10 ⁸ 957 | 11 ³ 318 | 77 308 | 11 ⁹ 224 | 11 ¹ 451 | 1 761 | 11 ¹⁵³ |
| 1958. | ⁹ 10 ¹² 594 | (⁹) | 10 ¹⁰ 979 | 11 ⁴ 898 | 74 693 | 11 ¹³ 491 | 11 ¹ 293 | 1 082 | (NA) |
| 1954. | ⁹ 10 ⁵ 743 | (⁹) | 10 ⁸ 465 | 11 ⁷ 523 | 31 182 | 11 ¹⁵ 631 | 11 ⁵ 099 | 564 | 11 ⁷⁹ |
| 1939 ² | 99 | (NA) | 71 | (NA) | 614 | (NA) | 10 | 47 | 3 |
| 1929 ⁵ | 96 | (NA) | - | 29 | 460 | (NA) | 4 | 29 | 2 |
| 1919 ⁶ | 82 | - | - | (NA) | 293 | (NA) | 12 14 | 86 | 2 |
| 1909 ⁶ | 57 | - | 6 | (NA) | 323 | (NA) | (NA) | (NA) | 1 |
| 1902. | 11 | (NA) | - | (NA) | 148 | (NA) | (NA) | (NA) | (2) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than one-half of the unit of measure specified.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Excludes data for dimension stone dressing plants, if any, operated in conjunction with 3 dimension limestone quarries.

³Represents number of mines and quarries and, for crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for common clay and shale pits and for oil and gas extraction operations, if any. In 1939, there were 8 such clay pits with products valued at \$57 thousand, 2 non-producing operations in the crude petroleum and natural gas industry, and one oil and gas field service operation.

⁵Excludes data for oil and gas extraction operations, if any.

⁶Excludes data for stone quarries operated as parts of cement and lime plants, if any. There was one such quarry in 1929. Also excludes for 1909, data for one nonproducing coal mine.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years represents net production and excludes this duplication.

⁹The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to about one-fourth of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|--------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 379 | 22 | 2 197 | 11 570 | 1 786 | 3 919 | 9 039 |
| | MINERAL INDUSTRIES | 370 | 21 | 2 125 | 11 173 | 1 714 | 3 775 | 8 642 |
| | INCLUDED IN MANUFACTURE | 9 | 1 | 172 | 1 397 | 172 | 144 | 397 |
| 13 | OIL AND GAS EXTRACTION | 179 | 11 | 933 | 5 473 | 730 | 1 454 | 4 083 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 121 | 4 | 391 | 2 533 | 292 | 593 | 1 802 |
| 1321 | NATURAL GAS LIQUIDS. | 6 | - | 63 | 443 | 57 | 129 | 395 |
| 138 | OIL AND GAS FIELD SERVICES | 52 | 7 | 479 | 2 497 | 381 | 732 | 1 886 |
| 1381 | DRILLING OIL AND GAS WELLS | 20 | 4 | 227 | 1 236 | 196 | 362 | 998 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 32 | 3 | 252 | 1 261 | 185 | 370 | 888 |
| | METAL MINING AND NONMETALLIC MINERALS MINING. | 200 | 11 | 1 264 | 6 097 | 1 056 | 2 465 | 4 956 |
| 108 14 | MINERAL INDUSTRIES | 191 | 10 | 1 192 | 5 700 | 984 | 2 321 | 4 559 |
| | INCLUDING MANUFACTURES | 9 | 1 | 72 | 397 | 72 | 144 | 397 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY (LIMESTONE) . . | 24 | 5 | 290 | 1 507 | 259 | 631 | 1 275 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY | 162 | 5 | 887 | 4 152 | 714 | 1 668 | 3 248 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|--------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS. | 70 619 | 29 363 | 89 332 | (NA) | 2 181 | 65 871 |
| | MINERAL INDUSTRIES. | 69 319 | 29 144 | 87 813 | 10 650 | 2 082 | 64 037 |
| | INCLUDED IN MANUFACTURE | 1 300 | 2 219 | 1 519 | (NA) | 199 | 1 834 |
| 13 | OIL AND GAS EXTRACTION. | 57 695 | 21 813 | 70 748 | 8 760 | 1 086 | 54 743 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS . . | 50 017 | 15 089 | 57 848 | 7 258 | 569 | 48 869 |
| 1321 | NATURAL GAS LIQUIDS | 1 469 | (D) | 4 340 | 1 081 | 517 | 5 874 |
| 138 | OIL AND GAS FIELD SERVICES. | 6 209 | 3 432 | 8 560 | } | 239 (NA) | 2 437 (NA) |
| 1381 | DRILLING OIL AND GAS WELLS. | 3 553 | 2 285 | 5 333 | | | |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 2 656 | (D) | 3 227 | | | |
| | METAL MINING AND NONMETALLIC MINERALS MINING | 12 924 | 7 550 | 18 584 | 1 890 | 1 095 | 11 128 |
| 108 14 | MINERAL INDUSTRIES. | 11 624 | 7 331 | 17 065 | 1 890 | 996 | 9 294 |
| | INCLUDING MANUFACTURES. | 1 300 | 2 219 | 1 519 | - | 199 | 1 834 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY (LIMESTONE). . | 2 855 | 2 728 | 5 145 | 438 | 280 | 3 327 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY. | 8 669 | 4 543 | 11 786 | 1 426 | 705 | 5 945 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|---------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. . | 29 144 | 3 ¹ 4 935 | (³) | 9 654 | 4 555 | 10 650 | 4 006 | 6 644 | (X) | (X) | (X) | (X) |
| 13 | OIL AND GAS EXTRACTION . . . | 28 813 | 3 ¹ 0 669 | (³) | 8 531 | 2 613 | 8 760 | 3 982 | 4 778 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 15 089 | 5 666 | — | 7 633 | 1 790 | 7 258 | 3 820 | 3 438 | (X) | 57 563 | (X) | 964 |
| 138 | OIL AND GAS FIELD SERVICES: | | | | | | | | | | | | |
| 1381 | DRILLING OIL AND GAS WELLS | 2 285 | 1 300 | — | 674 | 311 | 505 | 162 | 343 | (X) | 4 718 | (X) | (⁴) |
| 10 & 14 | METAL MINING AND NONMETALLIC MINERALS MINING | 7 331 | 4 266 | — | 1 123 | 1 942 | 1 890 | 24 | 1866 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE (LIMESTONE) | 2 728 | 1 627 | — | 419 | 682 | 438 | 7 | 431 | 2 911 | 4 835 | 5 ¹ 3 | 5 ¹ 8 |
| 1441 | SAND AND GRAVEL | 4 543 | 2 609 | — | 697 | 1 237 | 1 426 | 17 | 1 409 | 11 482 | 10 993 | 215 | (⁶) |

Note: See appendix A for an explanation of terms used.

Standard Notes: —Represents zero. (D) Withheld to avoid disclosure. (NA) Not available. (X) Not applicable. (Z) Less than 00.05%.

¹Represents gross shipments of the mineral indicated by the industry names less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁵Excludes figures for minerals produced and used in the same establishment.⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 7.⁷Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 318 | 292 | 113 | - | 16 | 97 | 172 | - | 150 | 22 | 7 | 26 |
| | NUMBER OF EMPLOYEES..... | 1 586 | 1 548 | 427 | - | (D) | (D) | 1 057 | - | 904 | 153 | 64 | 38 |
| | VALUE ADDED IN MINING.....\$1,000.. | 63 431 | 64 337 | 52 176 | - | (D) | (D) | 10 681 | - | 9 143 | 1 538 | 1 480 | (²) |
| 13 | OIL AND GAS EXTRACTION..... | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 127 | 103 | 97 | - | - | 97 | - | - | - | - | 6 | 24 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 190 | 189 | 16 | - | 16 | - | 172 | - | 150 | 22 | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 127 | (D) | (D) | - | (D) | - | 1 057 | - | 904 | 153 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 634 | (D) | (D) | - | (D) | - | 10 681 | - | 9 143 | 1 538 | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 24 | 24 | 1 | - | 1 | - | 23 | - | 23 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 290 | 290 | (D) | - | (D) | - | 262 | - | 262 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 855 | 2 855 | (D) | - | (D) | - | 2 246 | - | 2 246 | - | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 162 | 161 | 13 | - | 13 | - | 147 | - | 125 | 22 | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 824 | (D) | 33 | - | 33 | - | (D) | - | (D) | 153 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 679 | (D) | 278 | - | 278 | - | (D) | - | (D) | 1 538 | (D) | (D) |

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| | ALL MINERAL OPERATIONS | 379 | 22 | 2 197 | 11 570 | 1 786 | 3 919 | 9 039 | 70 619 | 29 363 | 89 332 | (NA) | 2 181 | 65 871 |
| | MINERAL INDUSTRIES | 370 | 21 | 2 125 | 11 173 | 1 714 | 3 775 | 8 642 | 69 319 | 29 144 | 87 813 | 10 650 | 2 082 | 64 037 |
| | INCLUDED IN MANUFACTURES ² | 9 | 1 | 72 | 397 | 72 | 144 | 397 | 1 300 | 219 | 1 519 | (NA) | 99 | 1 834 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BANNER COUNTY, TOTAL | 66 | - | 90 | 533 | 75 | 150 | 449 | 11 767 | 3 522 | 14 048 | 1 241 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 66 | - | 90 | 533 | 75 | 150 | 449 | 11 767 | 3 522 | 14 048 | 1 241 | 105 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 36 | - | 30 | 205 | 23 | 49 | 175 | 10 847 | 2 962 | 12 745 | 1 064 | 38 | (NA) |
| | BUFFALO COUNTY, TOTAL. | 14 | 2 | 96 | 329 | 84 | 174 | 297 | 777 | 522 | 1 123 | 176 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | 2 | 96 | 329 | 84 | 174 | 297 | 749 | 504 | 1 085 | 168 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 9 | 2 | 96 | 329 | 84 | 174 | 297 | 749 | 504 | 1 085 | 168 | 40 | 216 |
| | CASS COUNTY, TOTAL | 9 | 3 | 201 | 973 | 182 | 455 | 838 | 1 942 | 2 080 | 3 757 | 265 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | 3 | 201 | 973 | 182 | 455 | 838 | 1 942 | 2 080 | 3 757 | 265 | 116 | 915 |
| | CHEYENNE COUNTY, TOTAL | 68 | 1 | 225 | 1 488 | 159 | 337 | 982 | 9 993 | 3 569 | 12 121 | 1 441 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 68 | 1 | 225 | 1 488 | 159 | 337 | 982 | 9 993 | 3 569 | 12 121 | 1 441 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 32 | 1 | 90 | 651 | 51 | 103 | 329 | 8 159 | 1 529 | 8 872 | 816 | 162 | (NA) |
| | DODGE COUNTY, TOTAL. | 9 | - | 46 | 209 | 36 | 81 | 185 | 784 | 207 | 923 | 68 | (NA) | (NA) |
| | DOUGLAS COUNTY, TOTAL. | 13 | 1 | 102 | 580 | 92 | 222 | 530 | 1 219 | 419 | 1 506 | 132 | 117 | (NA) |
| | HITCHCOCK COUNTY, TOTAL. | 19 | - | 20 | 82 | 18 | 35 | 72 | 457 | 553 | 721 | 289 | 4 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | - | 6 | 21 | 4 | 9 | 14 | 338 | 455 | 560 | 233 | (NA) | (NA) |
| | KIMBALL COUNTY, TOTAL. | 100 | 5 | 339 | 1 921 | 286 | 602 | 1 595 | 15 952 | 5 323 | 19 607 | 1 668 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 100 | 5 | 339 | 1 921 | 286 | 602 | 1 595 | 15 952 | 5 323 | 19 607 | 1 668 | 509 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 55 | 1 | 116 | 703 | 103 | 194 | 630 | 12 712 | 3 316 | 14 937 | 1 091 | 184 | (NA) |
| | LINCOLN COUNTY, TOTAL. | 12 | - | 45 | 265 | 41 | 109 | 226 | 497 | 378 | 772 | 103 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 3 | - | 35 | 191 | 34 | 103 | 186 | 372 | 308 | 622 | 58 | 10 | 68 |
| 144 | SAND AND GRAVEL. | 3 | - | 35 | 191 | 34 | 103 | 186 | 372 | 308 | 622 | 58 | (NA) | (NA) |
| | MORRILL COUNTY, TOTAL. | 29 | - | 40 | 242 | 34 | 80 | 211 | 3 426 | 987 | 4 122 | 291 | 17 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | - | 20 | 124 | 17 | 34 | 107 | 2 860 | 826 | 3 471 | 215 | 6 | (NA) |
| | PLATTE COUNTY, TOTAL | 6 | 1 | 77 | 399 | 58 | 139 | 267 | 959 | 310 | 1 143 | 126 | 41 | (NA) |
| | RED WILLOW COUNTY, TOTAL | 44 | - | 152 | 899 | 117 | 235 | 601 | 10 255 | 2 836 | 11 798 | 1 293 | 9 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 40 | - | 143 | 870 | 109 | 217 | 575 | 10 210 | 2 814 | 11 735 | 1 289 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 24 | - | 65 | 422 | 48 | 97 | 278 | 8 854 | 2 203 | 9 949 | 1 108 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | - | 78 | 448 | 61 | 120 | 297 | 1 356 | 611 | 1 786 | 181 | (NA) | (NA) |
| | SCOTTS BLUFF COUNTY, TOTAL | 27 | - | 41 | 187 | 32 | 67 | 136 | 1 695 | 1 261 | 2 358 | 598 | 31 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | - | 24 | 156 | 19 | 40 | 109 | 1 565 | 1 179 | 2 171 | 573 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 8 | - | 4 | 11 | 2 | 4 | 5 | 1 211 | 925 | 1 582 | 554 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 13 | - | 20 | 145 | 17 | 36 | 104 | 354 | 254 | 589 | 19 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 36 | - | 58 | 290 | 50 | 106 | 221 | 1 336 | 663 | 1 839 | 160 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 36 | - | 58 | 290 | 50 | 106 | 221 | 1 336 | 663 | 1 839 | 160 | 178 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 9 | - | 14 | 91 | 9 | 17 | 41 | 999 | 342 | 1 248 | 93 | 80 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 27 | - | 44 | 199 | 41 | 89 | 180 | 337 | 321 | 591 | 67 | 98 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferrolloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|--|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| NEBRASKA, TOTAL | 379 | 370 | 9 | - | 1 | - | - | - | - | - | - | - | - | - | - | 121 | 6 | 52 | 2 | 1 | 24 | 2 | 162 | 6 | 1 | - | - | - | 1 | - |
| NO EMPLOYEES | 89 | 87 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 59 | - | 6 | - | - | 2 | - | 20 | 2 | - | - | - | - | - | - |
| 1-4 EMPLOYEES | 165 | 160 | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - | 41 | - | 16 | 1 | 1 | 10 | - | 89 | 4 | 1 | - | - | - | - | 1 |
| 5-9 EMPLOYEES | 58 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 3 | 8 | 1 | - | 4 | - | 30 | - | - | - | - | - | - | - |
| 10-19 EMPLOYEES | 45 | 44 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 3 | 15 | - | - | 3 | 1 | 18 | - | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 19 | 18 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 6 | - | - | 4 | 1 | 5 | - | - | - | - | - | - | - |
| 50-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ADAMS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| ANTELOPE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| BANNER COUNTY, TOTAL | 66 | 66 | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 1 | 29 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 66 | 66 | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 1 | 29 | - | - | - | - | - | - | - | - | - | - | - | - |
| BOONE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BROWN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| BUFFALO COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | 9 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | 7 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| BUTLER COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | - | - |
| CASS COUNTY, TOTAL | 11 | 9 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| CEDAR COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| CHASE COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| CHEYENNE COUNTY, TOTAL | 69 | 68 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 32 | 3 | 33 | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 68 | 67 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 31 | 3 | 33 | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CLAY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| COLFAX COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | - | - | - | - | - | - | - |
| CUMING COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - |
| CUSTER COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | 1 | - |
| DAWES COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DAWSON COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - |
| DEUEL COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| DIXON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DODGE COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 8 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 8 | - | - | - | - | - | - | - | - |
| DOUGLAS COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 4 | - | 7 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 3 | - | 7 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| DUNDY COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| GAGE COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | - | 4 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| GARDEN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | |
| GREELEY COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| HALL COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | |
| HAMILTON COUNTY, TOTAL | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| HARLAN COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | |
| HAYES COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | 1 | - | - | - | - | - | - | - | |
| HITCHCOCK COUNTY, TOTAL. | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 5 | - | - | - | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 5 | - | - | - | 3 | - | - | - | - | - | - | - | |
| HOLT COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | |
| HOOKE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| HOWARD COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| JEFFERSON COUNTY, TOTAL. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | |
| KEARNEY COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| KEITH COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | 5 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | 5 | - | - | - | - | - | - | - | |
| KIMBALL COUNTY, TOTAL. | 101 | 100 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 55 | 1 | 44 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 96 | 95 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 54 | 1 | 40 | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | |
| KNOX COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | |
| LANCASTER COUNTY, TOTAL. | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | |
| LINCOLN COUNTY, TOTAL. | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 6 | - | - | - | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 6 | - | - | - | 3 | - | - | - | - | - | - | - | |
| LOUP COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| MCPHERSON COUNTY, TOTAL. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| MADISON COUNTY, TOTAL. | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| MERRICK COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| MORRILL COUNTY, TOTAL. | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 11 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 11 | - | - | - | 1 | - | - | - | - | - | - | - | |
| NANCE COUNTY, TOTAL. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| NEMAHA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| NUCKOLLS COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| OTOE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | |
| PAWNEE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| RED WILLOW COUNTY: TOTAL | 44 | 44 | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | - | 16 | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 44 | 44 | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | - | 16 | - | - | - | - | 4 | - | - | - | - | - | - | - |
| RICHARDSON COUNTY: TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 3 | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 3 | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| SALINE COUNTY: TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| SARPY COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 5 | - | - | - | - | - | - | - |
| SAUNDERS COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| SCOTTS BLUFF COUNTY: TOTAL | 28 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 13 | - | - | - | 6 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 28 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 13 | - | - | - | 6 | - | - | - | - | - | - | - | - |
| SEWARD COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SHERIDAN COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| SIOUX COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| STANTON COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| THAYER COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| THURSTON COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| VALLEY COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WEBSTER COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| YORK COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 27 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 27 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹See table 3 footnote 1.

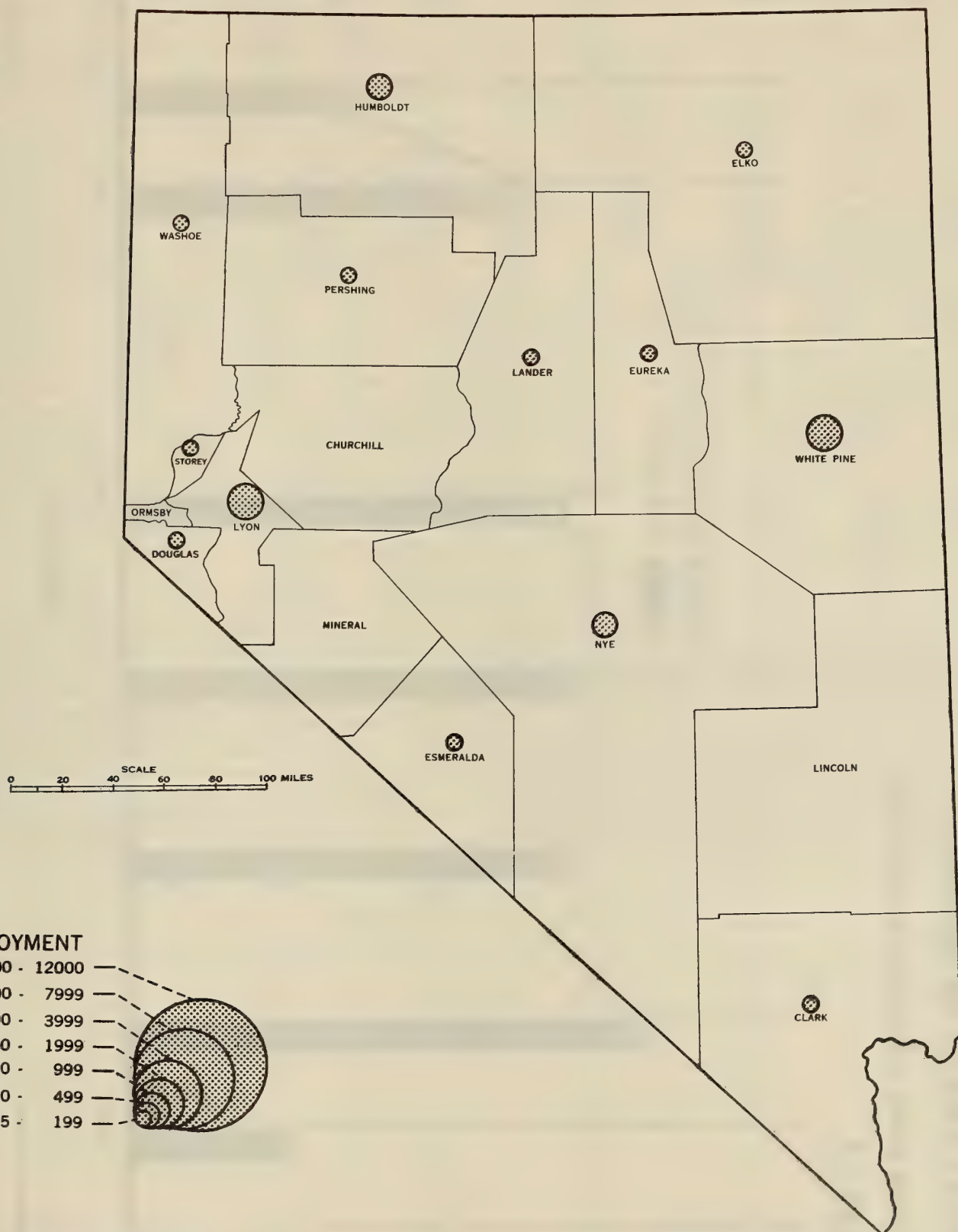
EMPLOYMENT IN MINING BY COUNTY: 1963

NEVADA

RANK AMONG STATES

EMPLOYMENT - 32

VALUE OF SHIPMENT - 32



EMPLOYMENT

8000 - 12000

4000 - 7999

2000 - 3999

1000 - 1999

500 - 999

200 - 499

25 - 199

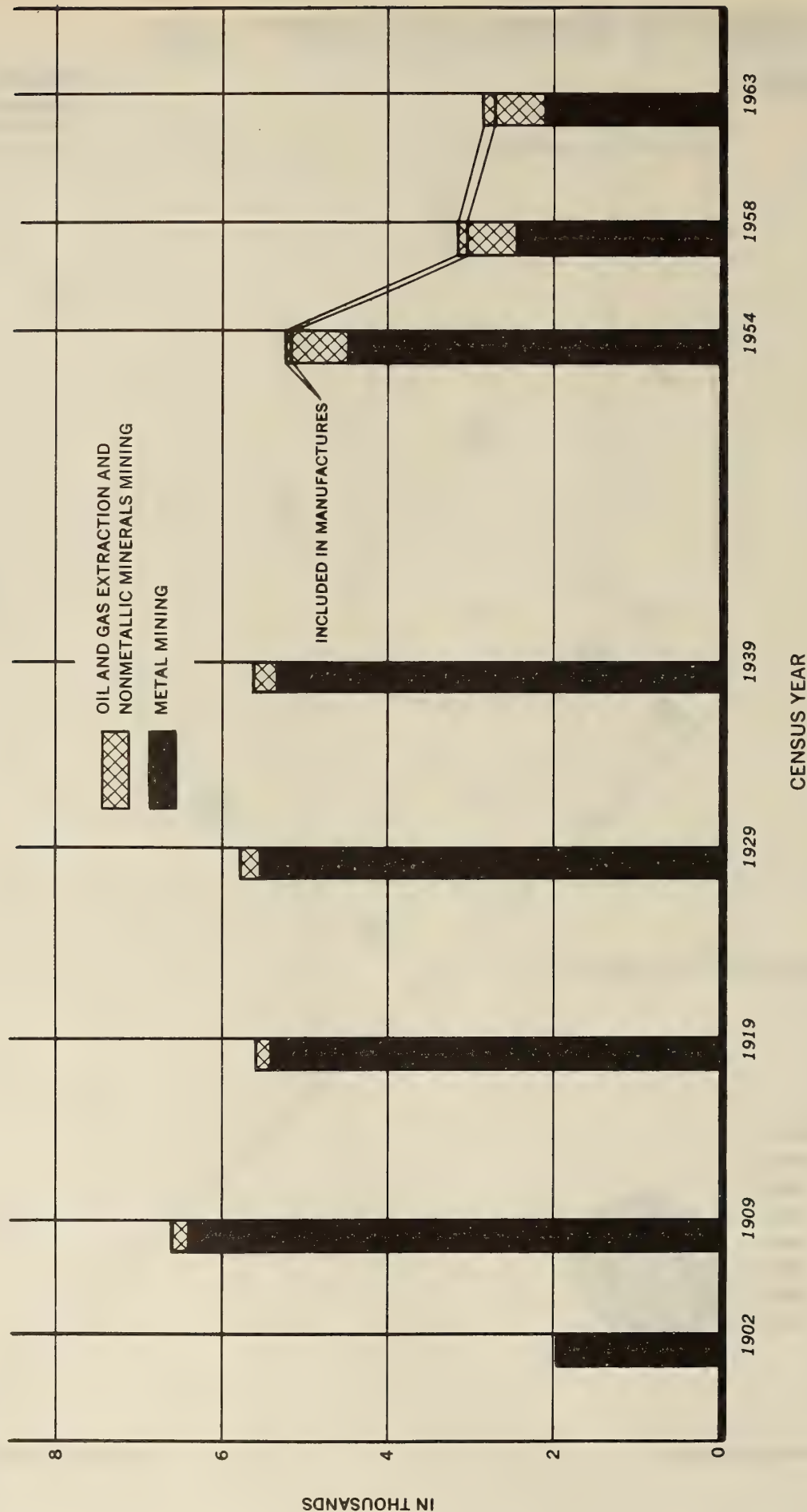
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEVADA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|--------------------------------|--|---|---------------------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 204 | 18 | 2 736 | 17 287 | 2 337 | 5 029 | 14 417 | 39 586 | |
| 1958..... | 203 | 28 | 3 077 | 16 304 | 2 470 | 4 996 | 12 644 | 32 337 | |
| 1954..... | 450 | 41 | 5 262 | 25 508 | 4 585 | 10 232 | 21 606 | 153 429 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963..... | 216 | 19 | 2 887 | 18 156 | 2 487 | 5 328 | 15 283 | 44 655 | |
| 1958..... | 208 | 30 | 3 159 | 16 688 | 2 552 | 5 157 | 13 028 | 34 302 | |
| 1954 ² | 454 | 43 | 5 336 | 25 796 | 4 659 | 10 378 | 21 894 | 154 795 | |
| 1939..... | ³ 295 | (NA) | 5 658 | 9 218 | 5 099 | 11 344 | 7 880 | 18 670 | |
| 1929 ⁴ | 181 | (NA) | 5 816 | 10 475 | 5 246 | (NA) | 8 936 | 18 804 | |
| 1919 ⁵ | 321 | (NA) | 5 637 | 9 935 | 4 916 | (NA) | 8 503 | 9 432 | |
| 1909 ⁵ | 548 | (NA) | 6 624 | 8 535 | 5 840 | (NA) | 7 335 | 15 729 | |
| 1902 ⁶ | ³ 196 | (NA) | 1 994 | 2 265 | ⁷ 1 706 | (NA) | 1 862 | 2 406 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ^a (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | ⁹ 32 005 | (⁹) | 1 999 | 2 879 | 70 772 | 5 697 | 976 | 418 | 334 |
| 1958..... | ⁹ 30 608 | (⁹) | 2 949 | 7 644 | 63 789 | 9 749 | 853 | 345 | (NA) |
| 1954..... | 26 093 | 14 766 | 14 020 | 4 410 | ¹ 102 471 | 10 262 | 929 | 203 | 354 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963..... | ⁹ 10 ³ 3 246 | (⁹) | ¹⁰ 1 999 | ¹¹ 2 879 | 77 082 | ¹¹ 5 697 | ¹¹ 976 | 418 | ¹² 334 |
| 1958..... | ⁹ 10 ³ 1 172 | (⁹) | ¹⁰ 2 949 | ¹¹ 7 644 | 66 318 | ¹¹ 9 749 | ¹¹ 853 | 334 | (NA) |
| 1954 ² | ¹⁰ 26 327 | 14 766 | ¹⁰ 14 020 | ¹¹ 4 410 | ¹ 104 071 | ¹¹ 10 262 | ¹¹ 929 | 199 | ¹² 354 |
| 1939..... | 6 028 | (NA) | 866 | (NA) | 25 564 | (NA) | 455 | 89 | 106 |
| 1929 ⁴ | 7 495 | (NA) | 360 | 2 106 | 26 659 | (NA) | ¹² 1 035 | 197 | 80 |
| 1919 ⁵ | 8 267 | - | 355 | (NA) | 18 054 | (NA) | ¹² 1 026 | 209 | 60 |
| 1909 ⁵ | 5 616 | 1 610 | 317 | (NA) | 23 272 | (NA) | (NA) | (NA) | 32 |
| 1902 ⁶ | 1 077 | (NA) | 35 | (NA) | 3 518 | (NA) | (NA) | (NA) | 5 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

³Represents number of mines and quarries and, for mining services industries, number of operating companies.

⁴Excludes data for common clay and shale mining operations, if any. Only one such operation was reported for 1939.

⁵Excludes data for sand and gravel mining operations and stone quarries operated as parts of lime plants. For 1929, 3 sand and gravel mining operations were reported and one such stone quarry. See also footnote 4.

⁶May include data for one lime plant producing lime valued at less than \$73 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1939 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. For all other years represents net production and excludes this duplication.

⁹Figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰For crushed and broken stone, sand and gravel, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, and gypsum mining operations in manufacturing establishments, and, for 1963, data for dimension stone quarries in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 4 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS..... | 216 | 19 | 2 887 | 18 156 | 2 487 | 5 328 | 15 283 |
| | MINERAL INDUSTRIES..... | 204 | 18 | 2 736 | 17 287 | 2 337 | 5 029 | 14 417 |
| | INCLUDED IN MANUFACTURES..... | 12 | 1 | ¹ 151 | ¹ 869 | ¹ 150 | 299 | 866 |
| 10 | METAL MINING..... | 107 | 11 | 2 135 | 13 520 | 1 811 | 3 844 | 11 251 |
| 1011 | IRON ORES..... | 10 | 3 | 166 | 1 122 | 150 | 341 | 1 023 |
| 104 | GOLD AND SILVER ORES..... | 55 | 2 | 234 | 1 300 | 202 | 451 | 1 187 |
| 1042 | LODE GOLD..... | 26 | 1 | 180 | 1 073 | 171 | 385 | 1 007 |
| 13 | OIL AND GAS EXTRACTION..... | 10 | - | 29 | 138 | 25 | 56 | 109 |
| 14 | NONMETALLIC MINERALS MINING..... | 99 | 8 | 723 | 4 498 | 651 | 1 428 | 3 923 |
| | MINERAL INDUSTRIES..... | 87 | 7 | 572 | 3 629 | 501 | 1 129 | 3 057 |
| | INCLUDED IN MANUFACTURES..... | 12 | 1 | ¹ 151 | ¹ 869 | ¹ 150 | 299 | 866 |
| 144 | SAND AND GRAVEL..... | 36 | 2 | 214 | 1 090 | 192 | 401 | 924 |
| | MINERAL INDUSTRY..... | 31 | 2 | 157 | 803 | 135 | 288 | 637 |
| | INCLUDED IN MANUFACTURES..... | 5 | - | ¹ 57 | ¹ 287 | ¹ 57 | 113 | 287 |
| 147 | CHEMICAL AND FERTILIZER MINERALS.... | 19 | - | 47 | 221 | 41 | 87 | 210 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. ² | | | | | | | |
| | MINERAL INDUSTRIES..... | 23 | 4 | 176 | 1 286 | 163 | 412 | 1 163 |
| | GYPSUM..... | 5 | 2 | 74 | 534 | 71 | 153 | 505 |
| 1499 | NONMETALLIC MINERALS, N.E.C..... | 10 | 3 | 139 | 1 030 | 131 | 337 | 937 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|---|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS..... | 44 655 | ² 38 125 | ¹ 77 082 | (NA) | 3 159 | 34 302 |
| | MINERAL INDUSTRIES..... | 39 586 | ³ 6 883 | 70 772 | 5 697 | 3 077 | 32 337 |
| | INCLUDED IN MANUFACTURES..... | 5 069 | ² 1 242 | ¹ 6 310 | (NA) | ¹ 82 | 1 965 |
| 10 | METAL MINING..... | 28 098 | 30 219 | 54 637 | 3 680 | (NA) | (NA) |
| 1011 | IRON ORES..... | 2 586 | 1 923 | 3 989 | 520 | 160 | 2 496 |
| 104 | GOLD AND SILVER ORES..... | 1 494 | 2 206 | 2 262 | 1 438 | 195 | 1 946 |
| 1042 | LODE GOLD..... | 1 151 | 1 868 | 2 094 | 925 | 93 | (NA) |
| 13 | OIL AND GAS EXTRACTION..... | 505 | 891 | 639 | 757 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING..... | 16 052 | ² 7 015 | ¹ 21 806 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRIES..... | 10 983 | 5 773 | 15 496 | 1 260 | (NA) | (NA) |
| | INCLUDED IN MANUFACTURES..... | 5 069 | ² 1 242 | ¹ 6 310 | (NA) | 82 | 1 965 |
| 144 | SAND AND GRAVEL..... | 3 766 | ² 1 711 | ¹ 5 098 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY..... | 2 049 | 1 126 | 2 796 | 379 | 152 | 1 796 |
| | INCLUDED IN MANUFACTURES..... | 1 717 | ² 585 | ¹ 2 302 | (NA) | (NA) | (NA) |
| 147 | CHEMICAL AND FERTILIZER MINERALS.... | 821 | 613 | 1 370 | 64 | 54 | 749 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. ² | | | | | | |
| | MINERAL INDUSTRIES..... | 3 775 | 2 278 | 5 270 | 783 | 160 | 1 967 |
| | GYPSUM..... | 2 690 | 603 | 3 244 | 49 | (NA) | (NA) |
| 1499 | NONMETALLIC MINERALS, N.E.C..... | 3 304 | 1 607 | 4 206 | 705 | 135 | 1 513 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|---------------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES. | 36 883 | ³ 32 005 | (³) | 1 999 | 2 879 | 5 697 | 2 404 | 3 293 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING..... | 30 219 | ³ 27 269 | (³) | 1 175 | 1 775 | 3 680 | 1 653 | 2 027 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING.. | 5 773 | ³ 4 278 | (³) | 447 | 1 048 | 1 260 | 87 | 1 173 | (x) | (x) | (x) | (x) |
| 149 | MISCELLANEOUS MINERALS: N.E.C..... | 2 278 | 1 454 | - | 217 | 607 | 783 | 84 | 699 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|---------------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 191 | 132 | 63 | 13 | 46 | 4 | 67 | 6 | 60 | 1 | 2 | 59 |
| | NUMBER OF EMPLOYEES..... | ² 2 508 | ² 2 355 | (D) | (D) | (D) | 2 | (D) | (D) | ² 1 138 | (D) | (D) | 153 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 36 996 | ² 37 392 | (D) | (D) | (D) | 149 | (D) | (D) | ² 17 987 | (D) | (D) | (³) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 100 | 49 | 26 | 8 | 17 | 1 | 22 | 4 | 18 | - | 1 | 51 |
| | NUMBER OF EMPLOYEES..... | 1 936 | 1 788 | (D) | (D) | (D) | (D) | (D) | (D) | 663 | - | (D) | 148 |
| | VALUE ADDED IN MINING.....\$1,000.. | 25 941 | 26 334 | (D) | (D) | (D) | (D) | (D) | (D) | 8 227 | - | (D) | (³) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 85 | 79 | 33 | 5 | 28 | - | 45 | 2 | 42 | 1 | 1 | 6 |
| | NUMBER OF EMPLOYEES..... | ² 569 | ² 565 | 60 | 8 | 52 | - | (D) | (D) | ² 475 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 10 912 | ² 10 915 | 987 | 95 | 892 | - | (D) | (D) | ² 9 760 | (D) | (D) | (D) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 23 | 20 | 8 | 3 | 5 | - | 12 | 1 | 11 | - | - | 3 |
| | NUMBER OF EMPLOYEES..... | 176 | 176 | 12 | (D) | (D) | - | 164 | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 775 | 3 784 | 221 | (D) | (D) | - | 3 563 | (D) | (D) | - | - | (³) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

²Includes data for two nonmetallic mineral mining service establishments.

³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 14 | ALL MINERAL OPERATIONS | 216 | 19 | 2 887 | 18 156 | 2 487 | 5 328 | 15 283 | 44 655 | 38 125 | 77 082 | (NA) | 3 159 | 34 302 |
| | MINERAL INDUSTRIES | 204 | 18 | 2 736 | 17 287 | 2 337 | 5 029 | 14 417 | 39 586 | 36 883 | 70 772 | 5 697 | 3 077 | 32 337 |
| | INCLUDED IN MANUFACTURES ² | 12 | 1 | 151 | 869 | 150 | 299 | 866 | 5 069 | 1 242 | 6 310 | (NA) | 82 | 1 965 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | CLARK COUNTY: TOTAL. | 28 | 3 | 122 | 681 | 107 | 240 | 595 | 1 894 | 1 203 | 2 713 | 384 | 339 | 5 596 |
| | NONMETALLIC MINERALS MINING. | 20 | 3 | 109 | 644 | 97 | 223 | 562 | 1 705 | 1 127 | 2 475 | 357 | (NA) | (NA) |
| | ELKO COUNTY: TOTAL | 20 | - | 25 | 91 | 20 | 45 | 73 | 165 | 1 086 | 1 003 | 248 | 58 | 503 |
| | ESMERALDA COUNTY: TOTAL. | 16 | 1 | 41 | 279 | 34 | 74 | 227 | 394 | 419 | 647 | 166 | 76 | 352 |
| | EUREKA COUNTY: TOTAL | 6 | - | 29 | 165 | 26 | 59 | 157 | 663 | 159 | 801 | 21 | 50 | (NA) |
| | HUMBOLDT COUNTY: TOTAL | 11 | 3 | 228 | 1 465 | 216 | 495 | 1 368 | 1 959 | 1 631 | 3 392 | 198 | 169 | 2 711 |
| 14 147 | LANDER COUNTY: TOTAL | 13 | - | 37 | 203 | 33 | 75 | 200 | 855 | 438 | 1 194 | 99 | 93 | 728 |
| | NONMETALLIC MINERALS MINING. | 6 | - | 23 | 115 | 20 | 44 | 112 | 520 | 269 | 768 | 21 | (NA) | (NA) |
| 14 144 | CHEMICAL & FERTILIZER MINERALS | 6 | - | 23 | 115 | 20 | 44 | 112 | 520 | 269 | 768 | 21 | (NA) | (NA) |
| | NYE COUNTY: TOTAL. | 25 | 1 | 259 | 1 594 | 186 | 393 | 1 183 | 4 965 | 2 391 | 7 119 | 237 | 335 | (NA) |
| | PERSHING COUNTY: TOTAL | 25 | 2 | 106 | 659 | 103 | 261 | 648 | 2 275 | 1 388 | 2 921 | 742 | 168 | 915 |
| | WASHOE COUNTY: TOTAL | 22 | - | 128 | 795 | 107 | 226 | 633 | 1 364 | 558 | 1 567 | 355 | 104 | 672 |
| | NONMETALLIC MINERALS MINING. | 9 | - | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | SAND AND GRAVEL. | 7 | - | 61 | 369 | 50 | 103 | 258 | 757 | 282 | 932 | 107 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963**

| | | 101 Iron ores | | | | | | | | | | 109 Miscellaneous metal ores | | | | | | | | | | 138 Oil and gas field services | | | | | | | | | | 145 Clay and related minerals | | | | | | | | | |
|------------------------------------|--|---------------------------|-----------------------------------|--------------------------|---|-----|-----|-----|-----|-----|-----|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|---|------|-----|------|-----|------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|
| | | 102 Copper ores | | | | | | | | | | 110 Anthracite | | | | | | | | | | 141 Dimension stone | | | | | | | | | | 145M Clay and related minerals in manufactures | | | | | | | | | |
| | | 103 Lead and zinc ores | | | | | | | | | | 111 Anthracite mining services | | | | | | | | | | 141M Dimension stone in manufactures | | | | | | | | | | 147 Chemical and fertilizer minerals | | | | | | | | | |
| | | 104 Gold and silver ores | | | | | | | | | | 120 Bituminous coal and lignite | | | | | | | | | | 142 Crushed and broken stone | | | | | | | | | | 148 Nonmetallic minerals services | | | | | | | | | |
| | | 105 Bauxite | | | | | | | | | | 121 Coal mining services | | | | | | | | | | 142M Crushed and broken stone in manufactures | | | | | | | | | | 149 Miscellaneous minerals, n.e.c. | | | | | | | | | |
| | | 106 Ferroalloy ores | | | | | | | | | | 131 Crude petroleum and natural gas | | | | | | | | | | 144 Sand and gravel | | | | | | | | | | 149M Miscellaneous minerals, n.e.c., in manufactures | | | | | | | | | |
| | | 108 Metal mining services | | | | | | | | | | 132 Natural gas liquids | | | | | | | | | | 144M Sand and gravel in manufactures | | | | | | | | | | | | | | | | | | | |
| State, county, and size class | | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Total | Classified in mineral industries* | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 111 | 120 | 121 | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | | | | | | | | | | |
| NEVADA, TOTAL | | 216 | 204 | 12 | 10 | 11 | 10 | 55 | - | 3 | 7 | 11 | - | - | - | - | 6 | - | 4 | 2 | 1 | 4 | 4 | 31 | 5 | 6 | - | 19 | 2 | 23 | 2 | | | | | | | | | | |
| NO EMPLOYEES | | 77 | 77 | - | - | 2 | 4 | 31 | - | 1 | - | 5 | - | - | - | - | 4 | - | - | 1 | - | 1 | - | 11 | - | 4 | - | 6 | 7 | - | - | | | | | | | | | | |
| 1-4 EMPLOYEES | | 82 | 80 | 2 | 3 | 4 | 6 | 16 | - | 1 | 4 | 3 | - | - | - | - | 2 | - | 2 | 1 | 1 | 3 | 1 | 12 | - | 1 | - | 9 | 2 | 11 | - | | | | | | | | | | |
| 5-9 EMPLOYEES | | 22 | 17 | 5 | 2 | 1 | - | 4 | - | 1 | 1 | 2 | - | - | - | - | - | - | 1 | - | - | - | 1 | 2 | 3 | - | 3 | - | - | 1 | - | | | | | | | | | | |
| 10-19 EMPLOYEES | | 16 | 12 | 4 | 2 | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | 4 | 2 | - | 1 | - | 1 | - | - | | | | | | | | | | |
| 20-49 EMPLOYEES | | 11 | 10 | 1 | 2 | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 4 | 1 | - | | | | | | | | | | |
| 50-99 EMPLOYEES | | 2 | 2 | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | 3 | 3 | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 250-499 EMPLOYEES | | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 500-999 EMPLOYEES | | 2 | 2 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| CHURCHILL COUNTY, TOTAL | | 7 | 6 | 1 | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | 1 | - | - | 1 | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 7 | 6 | 1 | - | - | - | 1 | - | - | 1 | - | - | - | - | - | 1 | - | 1 | - | - | - | 1 | 1 | - | - | 1 | - | - | - | - | | | | | | | | | | |
| CLARK COUNTY, TOTAL | | 33 | 28 | 5 | - | 1 | 4 | 1 | - | - | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 2 | 2 | 14 | 2 | - | - | 1 | - | 2 | 1 | | | | | | | | | | |
| 0-19 EMPLOYEES | | 29 | 25 | 4 | - | 1 | 4 | 1 | - | - | 1 | 1 | - | - | - | - | - | - | - | 1 | - | 2 | 2 | 12 | 2 | - | - | 1 | - | 1 | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | 1 | - | | | | | | | | | | |
| DOUGLAS COUNTY, TOTAL | | 5 | 5 | - | 1 | - | - | 3 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 4 | 4 | - | - | - | - | 3 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| ELKO COUNTY, TOTAL | | 21 | 20 | 1 | - | - | 1 | 6 | - | - | 3 | 1 | - | - | - | - | 1 | - | 4 | - | - | 1 | - | 1 | 1 | - | - | 2 | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 21 | 20 | 1 | - | - | 1 | 6 | - | - | 3 | 1 | - | - | - | - | 1 | - | 4 | - | - | 1 | - | 1 | 1 | - | - | 2 | - | - | - | | | | | | | | | | |
| ESMERALDA COUNTY, TOTAL | | 16 | 16 | - | - | - | - | 6 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 7 | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 15 | 15 | - | - | - | - | 6 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 6 | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | | | | | | | | | | |
| EUREKA COUNTY, TOTAL | | 6 | 6 | - | 1 | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 6 | 6 | - | 1 | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| HUMBOLDT COUNTY, TOTAL | | 12 | 11 | 1 | 1 | - | - | 2 | - | - | 1 | 3 | 1 | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | 2 | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 9 | 8 | 1 | - | - | - | 1 | - | - | 1 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | 2 | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 2 | 2 | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| LANDER COUNTY, TOTAL | | 13 | 13 | - | 1 | 1 | - | 3 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 6 | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 13 | 13 | - | 1 | 1 | - | 3 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 6 | - | - | - | - | | | | | | | | | | |
| LINCOLN COUNTY, TOTAL | | 10 | 10 | - | - | 1 | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 4 | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 10 | 10 | - | - | 1 | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 4 | - | - | | | | | | | | | | |
| LYON COUNTY, TOTAL | | 12 | 12 | - | - | 1 | - | 6 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - | 1 | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 10 | 10 | - | - | - | - | 6 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - | 1 | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 250 EMPLOYEES AND OVER | | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| MINERAL COUNTY, TOTAL | | 11 | 11 | - | - | 1 | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 3 | - | 2 | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 11 | 11 | - | - | 1 | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 3 | - | 2 | - | | | | | | | | | | |
| NYE COUNTY, TOTAL | | 25 | 25 | - | - | - | 2 | 6 | - | - | 1 | 2 | - | - | - | - | 2 | - | 6 | - | - | - | 1 | - | 2 | - | 2 | 1 | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 24 | 24 | - | - | - | 2 | 6 | - | - | 1 | 2 | - | - | - | - | 2 | - | 6 | - | - | - | 1 | - | 1 | - | 2 | 1 | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | | | | | | | | | | |
| ORMSBY COUNTY, TOTAL | | 5 | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 5 | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - | - | | | | | | | | | | |
| PERSHING COUNTY, TOTAL | | 25 | 25 | - | 5 | 2 | - | 8 | - | 1 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | 2 | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 23 | 23 | - | 4 | 2 | - | 8 | - | 1 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | 1 | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 2 | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | | | | | | | | | | |
| STOREY COUNTY, TOTAL | | 3 | 3 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 2 | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | | | | | | | | | | |
| WASHOE COUNTY, TOTAL | | 26 | 22 | 4 | - | 1 | 1 | 6 | - | 1 | 1 | 2 | - | - | - | - | 1 | - | 1 | - | - | 2 | 7 | 1 | 1 | - | 1 | - | - | 1 | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 26 | 22 | 4 | - | 1 | 1 | 6 | - | 1 | 1 | 2 | - | - | - | - | 1 | - | 1 | - | - | 2 | 7 | 1 | 1 | - | 1 | - | - | 1 | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| WHITE PINE COUNTY, TOTAL | | 15 | 15 | - | - | 3 | 2 | 3 | - | - | 3 | - | - | - | - | - | 1 | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 10 | 10 | - | - | 1 | 2 | 2 | - | - | 1 | - | - | - | - | - | 1 | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | 3 | 3 | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 250 EMPLOYEES AND OVER | | 2 | 2 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| UNDISTRIBUTED, TOTAL | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

NEW HAMPSHIRE

RANK AMONG STATES

EMPLOYMENT - 47

VALUE OF SHIPMENT - 47

EMPLOYMENT

8000 - 12000

4000 - 7999

2000 - 3999

1000 - 1999

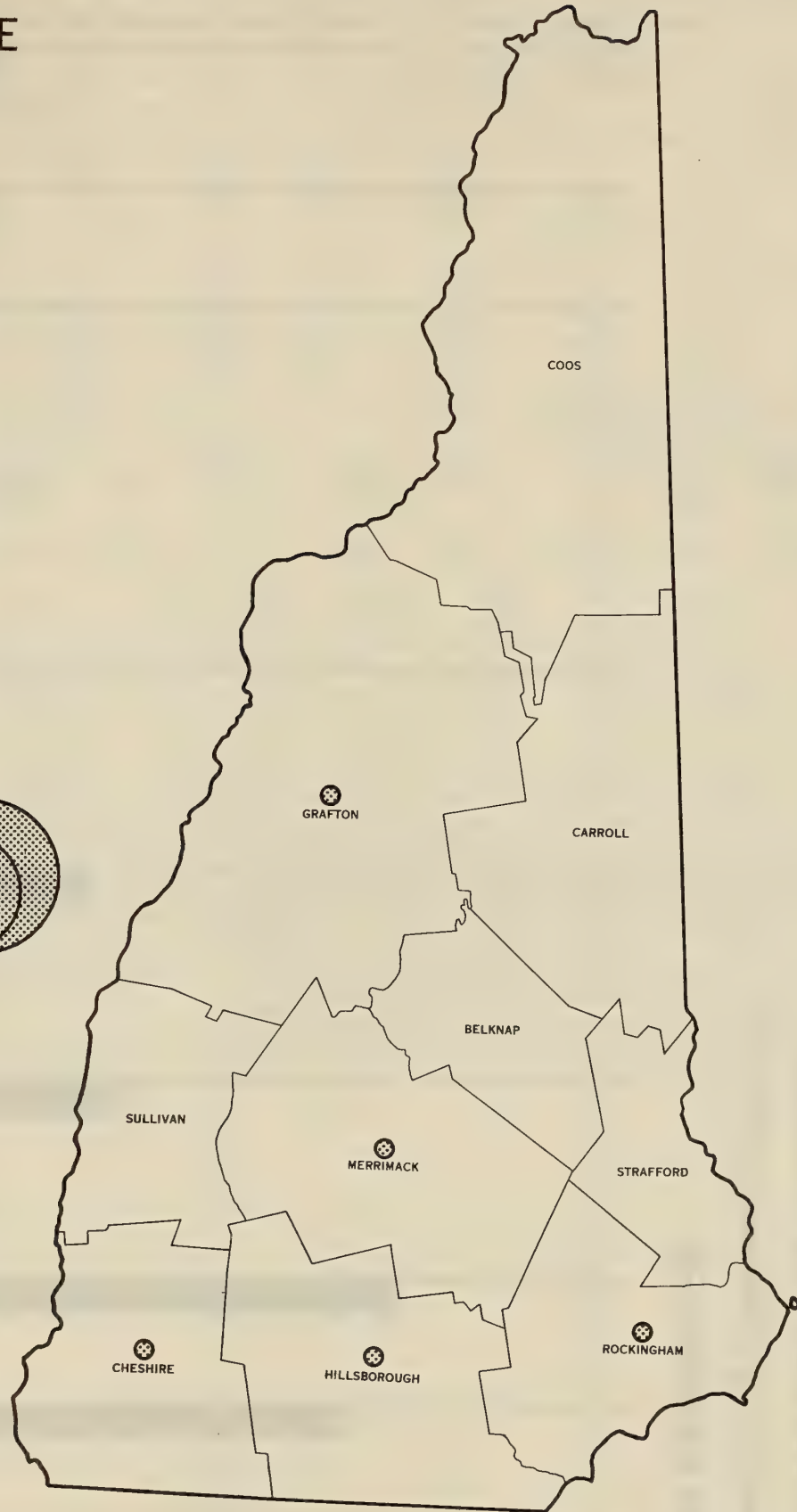
500 - 999

200 - 499

25 - 199



SCALE
0 10 20 30 MILES



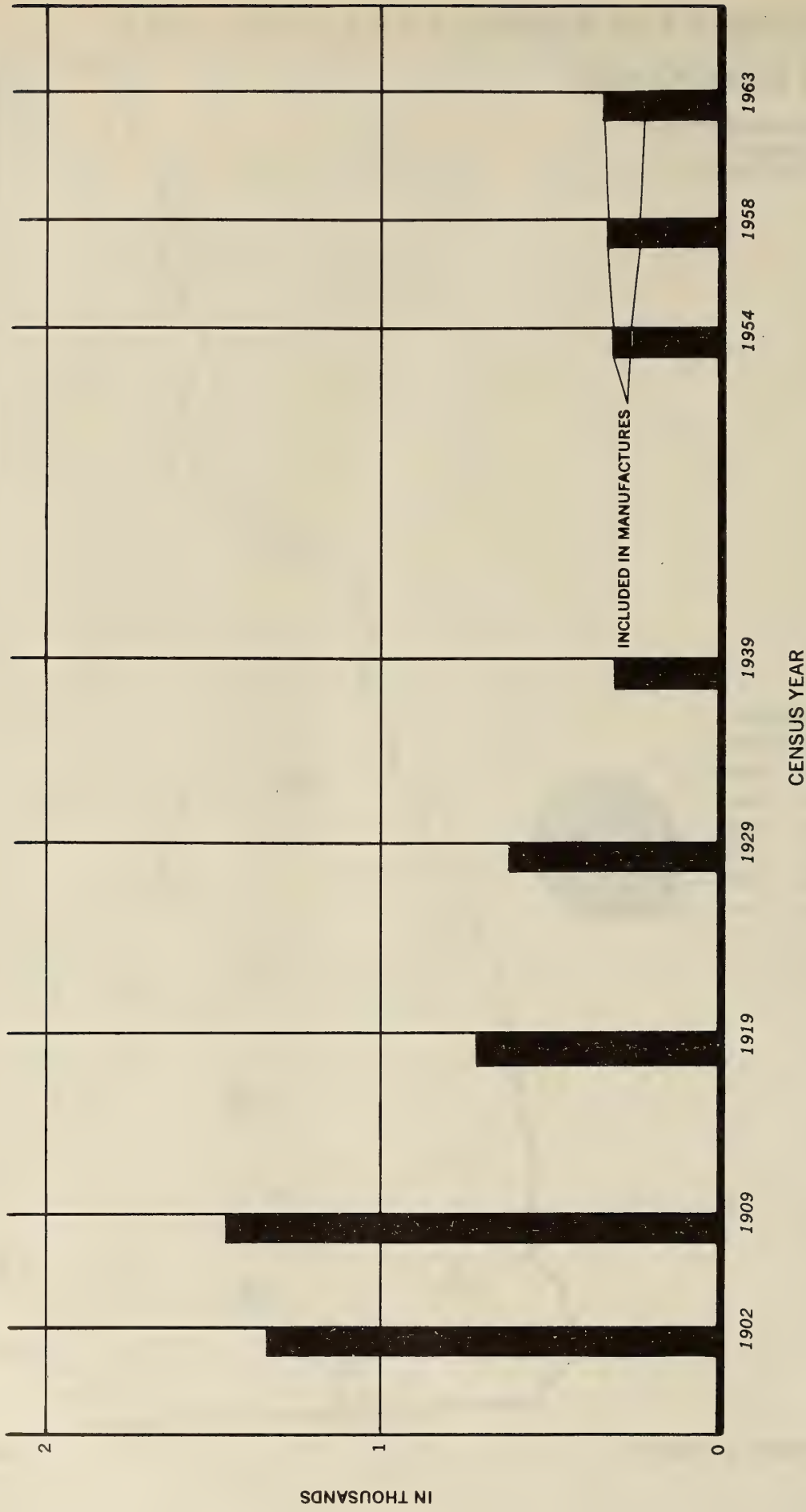
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEW HAMPSHIRE



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 32 | 3 | 217 | 1 180 | 167 | 375 | 863 | 2 134 |
| 1958. | 33 | 3 | 234 | 951 | 200 | 413 | 708 | 1 977 |
| 1954. | 39 | 3 | 266 | 855 | 240 | 481 | 723 | 1 658 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | |
| 1963. | 39 | 4 | (D) | (D) | (D) | (D) | (D) | (D) |
| 1958. | 45 | 4 | 328 | 1 534 | 282 | 579 | 1 166 | 2 751 |
| 1954 ¹ | 44 | 4 | 319 | 1 108 | 285 | 574 | 918 | 1 913 |
| 1939 ² | 25 | (NA) | 307 | 353 | 266 | 535 | 266 | 777 |
| 1929 ⁴ | 36 | (NA) | 624 | 884 | 569 | (NA) | 773 | 1 269 |
| 1919 ⁵ | 30 | (NA) | 727 | 922 | 682 | (NA) | 826 | 1 323 |
| 1909 ⁵ | 46 | (NA) | 1 466 | 980 | 1 418 | (NA) | 926 | 1 145 |
| 1902 ⁶ | 56 | (NA) | 1 345 | 875 | 1 253 | (NA) | 806 | 1 042 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|--|--|--|--------------------------------|--|---|---------------------------------------|-------------------------------|--------------------------------------|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 859 | - | 209 | 320 | 3 102 | 470 | 33 | 198 | 23 |
| 1958. | 632 | 112 | 195 | 174 | 2 866 | 224 | 34 | 170 | (NA) |
| 1954. | 289 | 51 | 66 | 178 | 1 980 | 262 | 27 | 113 | 14 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963. | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) | (NA) |
| 1958. | 9823 | 112 | 9195 | 10174 | 3 858 | 10 224 | 10 34 | 121 | (NA) |
| 1954 ¹ | 9565 | 51 | 966 | 10188 | 2 510 | 10 273 | 10 29 | 102 | 1015 |
| 1939 ² | 126 | (NA) | - | (NA) | 903 | (NA) | 18 | 68 | 7 |
| 1929 ⁴ | 287 | (NA) | 6 | 47 | 1 562 | (NA) | 54 | 95 | 1 |
| 1919 ⁵ | 210 | - | 35 | (NA) | 1 568 | (NA) | 11 41 | 60 | 4 |
| 1909 ⁵ | 155 | - | 9 | (NA) | 1 309 | (NA) | (NA) | (NA) | 4 |
| 1902 ⁶ | 134 | (NA) | - | (NA) | 1 176 | (NA) | (NA) | (NA) | 3 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

²Except for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing stone at such operations was \$250 thousand; this value has been included in the value of shipments and value added in mining. Except for number of mines and quarries, includes data for one diatomite mine in Massachusetts.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale operations. There were 3 such mines in 1939, with products valued at \$11 thousand.

⁵Excludes data for sand and gravel operations. There were 4 such establishments in 1929, with products valued at less than \$387 thousand. See also footnote 4.

⁶Excludes data for one nonproducing operation. See also footnote 5.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments and for dimension stone operations in manufactures in 1958, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, and for 1958, for dimension stone operations in manufactures.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 6 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 14 | MINERAL INDUSTRIES ONLY (NON-METALLIC MINERALS MINING) . . . | 32 | 3 | 217 | 1 180 | 167 | 375 | 863 |
| 1441 | SAND AND GRAVEL (MINERAL INDUSTRY) . . | 25 | 2 | 154 | 880 | 121 | 277 | 643 |

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 14 | MINERAL INDUSTRIES ONLY (NON-METALLIC MINERALS MINING) . . . | 2 184 | 1 388 | 3 102 | 470 | 234 | 1 977/ |
| 1441 | SAND AND GRAVEL (MINERAL INDUSTRY) . . | 1 761 | 1 126 | 2 510 | 377 | 89 | 884 |

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|--------------------|--|---|-------------------------------|--|----------------------|--|---|--|--------------------|--|--------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and pur- chased fuels and electric energy (\$1,000) | Minerals received for prepa- ration (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other con- struction, machinery, and equipment ² (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| 14 | ALL MINERAL INDUSTRIES (NONMETALLIC MINERALS MINING) | 1 388 | 859 | - | 209 | 320 | 470 | 2 | 468 | (x) | (x) | (x) | (x) |
| 1441 | SAND AND GRAVEL | 1 126 | 632 | - | 201 | 293 | 377 | 1 | 376 | 2 402 | ³ 2 471 | ⁴ 26 | (³) |

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for the value of shipment of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

⁴Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------|--------------------|----------------|--|-----------------------------|
| | | | Total | Mines only | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | | |
| 14 | ALL MINERAL INDUSTRIES | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 32 | 4 | - | 4 | - | 28 | - | 28 | - | - |
| | NUMBER OF EMPLOYEES..... | 212 | 212 | 18 | - | 18 | - | 194 | - | 194 | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 184 | 2 184 | 165 | - | 165 | - | 2 019 | - | 2 019 | - | - |
| 144 | NONMETALLIC MINERALS MINING | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 32 | 4 | - | 4 | - | 28 | - | 28 | - | - |
| | NUMBER OF EMPLOYEES..... | 212 | 212 | 18 | - | 18 | - | 194 | - | 194 | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 184 | 2 184 | 165 | - | 165 | - | 2 019 | - | 2 019 | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 25 | 25 | 2 | - | 2 | - | 23 | - | 23 | - | - |
| | NUMBER OF EMPLOYEES..... | 154 | 154 | (D) | - | (D) | - | (D) | - | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 1 761 | 1 761 | (D) | - | (D) | - | (D) | - | (D) | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.**TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958**

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|--------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 39 | 4 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) |
| | MINERAL INDUSTRIES | 32 | 3 | 217 | 1 180 | 167 | 375 | 863 | 2 184 | 1 388 | 3 102 | 470 | 234 | 1 977 |
| | INCLUDED IN MANUFACTURES | 7 | 1 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) |
| | COUNTIES ² | | | | | | | | | | | | | |
| | GRAFTON COUNTY, TOTAL | 8 | - | 28 | 96 | 23 | 49 | 80 | 320 | 203 | 471 | 52 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | - | 28 | 96 | 23 | 49 | 80 | 320 | 203 | 471 | 52 | 94 | 735 |
| | HILLSBOROUGH COUNTY, TOTAL | 7 | - | 47 | 246 | 39 | 83 | 217 | 530 | 241 | 668 | 103 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | - | 47 | 246 | 39 | 83 | 217 | 530 | 241 | 668 | 103 | 7 | 60 |
| | MERRIMACK COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in a specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.²Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferrous ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|--|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | |
| NEW HAMPSHIRE, TOTAL | 39 | 32 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | 1 | 25 | 1 | 4 | 4 | - | - | - | - | |
| NO EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | |
| 1-4 EMPLOYEES | 22 | 18 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | 1 | 3 | 3 | - | - | - | - | - | |
| 5-9 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | 1 | - | - | - | - | - | |
| 10-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 20-49 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| BELKNAP COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| CHESHIRE COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| COOS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| GRAFTON COUNTY, TOTAL | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 1 | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 1 | 1 | - | - | - | - | - | |
| HILLSBOROUGH COUNTY, TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 5 | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 5 | 1 | - | - | - | - | - | - | |
| MERRIMACK COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| ROCKINGHAM COUNTY, TOTAL | 6 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | 2 | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 2 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 2 | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| STRAFFORD COUNTY, TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | 1 | - | - | - | - | - | |
| SULLIVAN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

NEW JERSEY

RANK AMONG STATES

EMPLOYMENT - 29

VALUE OF SHIPMENT - 31

EMPLOYMENT

8000 - 12000

4000 - 7999

2000 - 3999

1000 - 1999

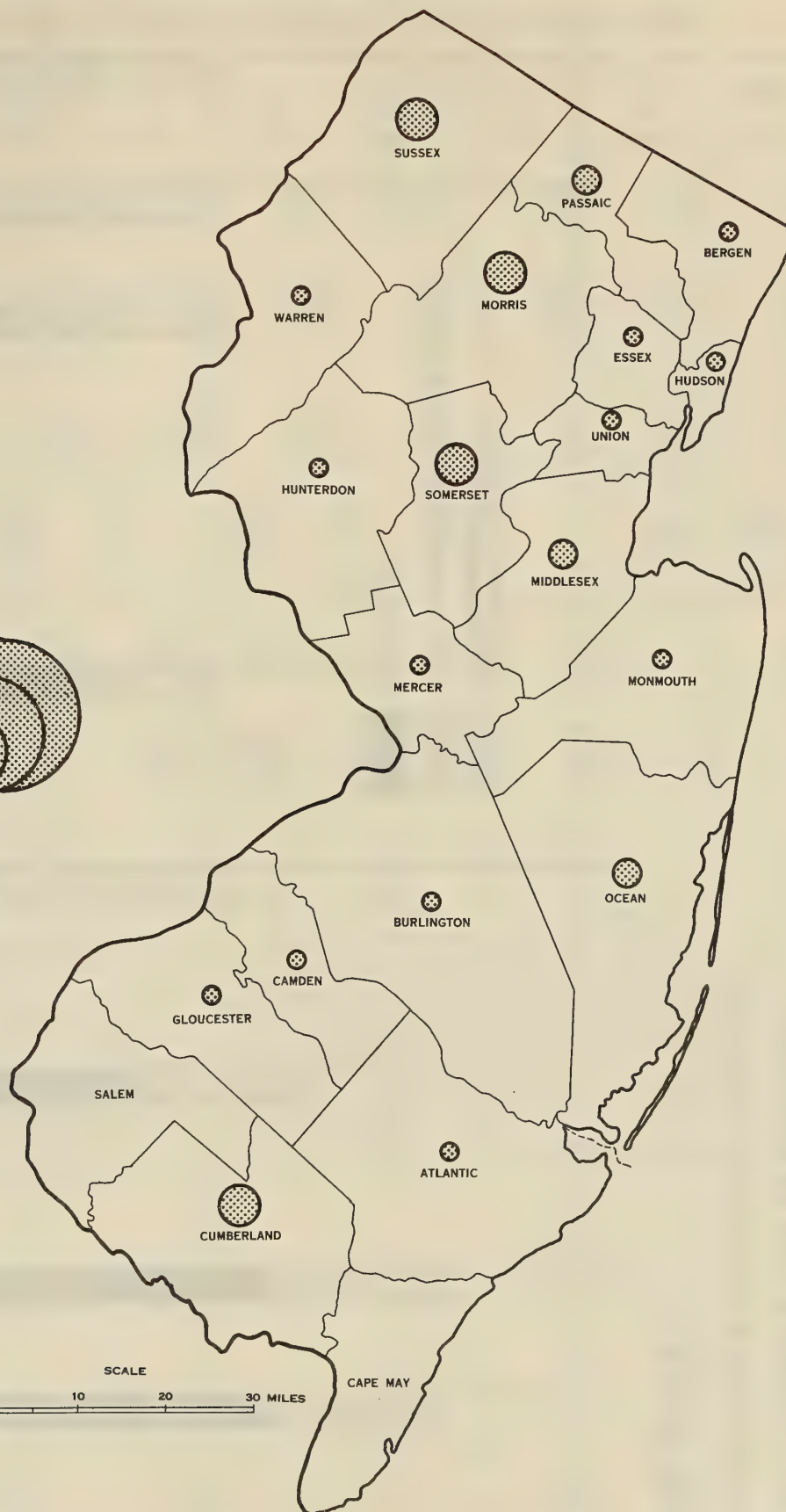
500 - 999

200 - 499

25 - 199



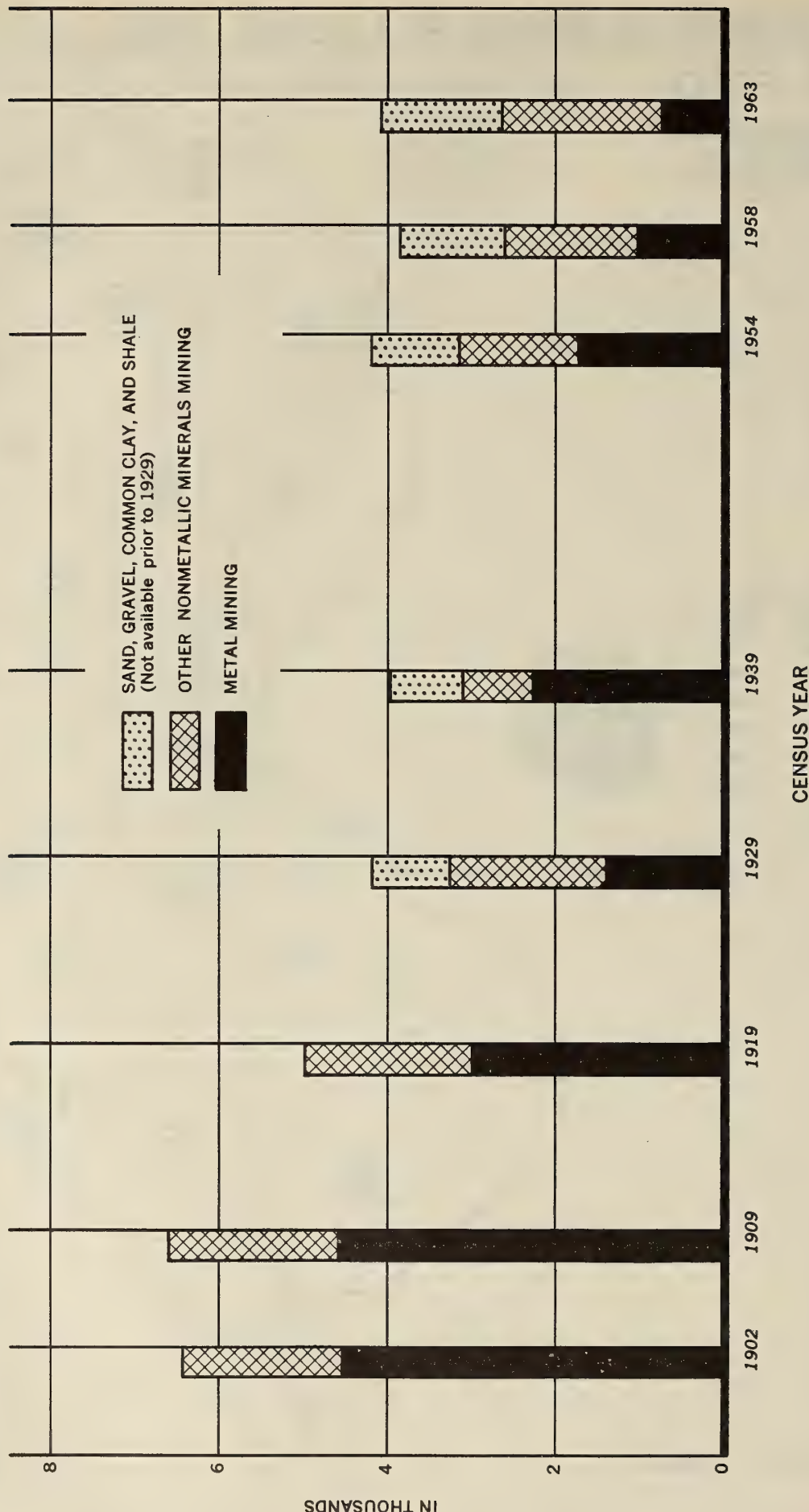
SCALE
0 10 20 30 MILES



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEW JERSEY



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 157 | 47 | 3 760 | 23 818 | 2 877 | 6 361 | 16 560 | 55 232 | |
| 1958. | 135 | 42 | 3 748 | 19 485 | 2 812 | 5 593 | 13 366 | 37 638 | |
| 1954. | 153 | 41 | 4 126 | 18 529 | 3 479 | 7 820 | 14 932 | 138 617 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 182 | 49 | 4 078 | 25 363 | 3 195 | 7 001 | 18 105 | 59 384 | |
| 1958. | 150 | 44 | 3 859 | 19 955 | 2 923 | 5 814 | 13 836 | 40 663 | |
| 1954 ² | 166 | 41 | 4 190 | 18 769 | 3 543 | 7 948 | 15 172 | 138 965 | |
| 1939 ³ | 137 | (NA) | 3 978 | 5 926 | 3 369 | 6 451 | 4 314 | 11 103 | |
| 1929 ⁵ | 117 | (NA) | 4 196 | 6 877 | 3 630 | (NA) | 5 400 | 12 540 | |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS: | | | | | | | | | |
| 1929. | 65 | (NA) | 3 300 | 5 376 | 2 906 | (NA) | 4 309 | 8 806 | |
| 1919. | 97 | (NA) | 4 989 | 6 120 | 4 576 | (NA) | 5 393 | 6 336 | |
| 1909. | 133 | (NA) | 6 602 | 3 064 | 76 323 | (NA) | 2 801 | 7 309 | |
| 1902 ⁶ | 165 | (NA) | 6 436 | 3 267 | 5 981 | (NA) | 2 870 | 4 358 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 18 820 | 641 | 723 | 5 142 | 72 401 | 8 157 | 962 | 334 | 256 |
| 1958. | 11 689 | 80 | 830 | 2 311 | 48 651 | 3 897 | 655 | 233 | (NA) |
| 1954. | 11 049 | 482 | 1 283 | 3 477 | 50 855 | 4 029 | 699 | 201 | 208 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 19 553 | 641 | 923 | 10 514 | 77 286 | 10 157 | 10 962 | 334 | 10 256 |
| 1958. | 11 974 | 80 | 930 | 10 231 | 51 961 | 10 897 | 10 655 | 224 | (NA) |
| 1954 ² | 11 301 | 482 | 1 283 | 10 347 | 51 455 | 10 029 | 10 699 | 197 | (NA) |
| 1939 ³ | 2 926 | (NA) | 95 | (NA) | 14 124 | (NA) | 652 | 194 | 10 208 |
| 1929 ⁵ | 3 107 | (NA) | 143 | 823 | 15 790 | (NA) | 908 | 250 | 91 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS: | | | | | | | | | |
| 1929. | 2 241 | (NA) | 53 | 470 | 11 100 | (NA) | 732 | 252 | 50 |
| 1919. | 2 915 | - | 58 | (NA) | 9 309 | (NA) | 11 991 | 217 | 34 |
| 1909. | 994 | - | 44 | (NA) | 8 347 | (NA) | (NA) | (NA) | 18 |
| 1902 ⁶ | 2 236 | (NA) | 11 | (NA) | 6 605 | (NA) | (NA) | (NA) | 22 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes figures for the Uranium-Radium-Vanadium Ores Industry. No data on value of shipments and cost of ores received for milling were obtained for this industry for 1954.

²Excludes figures for sand and gravel mining operations in manufacturing establishments.

³Except for number of mines, excludes data for nonproducing operation as follows: 1 iron ore mine and 1 trap rock quarry and crushing plant. Also excludes figures for dimension stone dressing plants operated in conjunction with quarries, if any.

⁴Represents number of mines and quarries.

⁵Excludes figures for common clay and shale and peat operations. There were 12 common clay and shale mines in 1939 with products valued at \$202 thousand.

⁶Includes figures for lime plants producing lime valued at \$123 thousand. Also includes data for 2 cement plants.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For sand and gravel and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For years prior to 1958, the figures represent net production and exclude this duplication.

⁹For stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes figures for stone, sand, and gravel, and clay mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 2 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 182 | 49 | 4 078 | 25 363 | 3 195 | 7 001 | 18 105 |
| | MINERAL INDUSTRIES | 157 | 47 | 3 760 | 23 818 | 2 877 | 6 361 | 16 560 |
| | INCLUDED IN MANUFACTURES | 25 | 2 | ¹ 318 | ¹ 1 545 | ¹ 318 | 640 | 1 545 |
| 10 | METAL MINING | 7 | 4 | 737 | 4 168 | 624 | 1 210 | 3 348 |
| | NONMETALLIC MINERALS MINING | 175 | 45 | 3 341 | 21 195 | 2 571 | 5 791 | 14 757 |
| 14 | MINERAL INDUSTRIES | 150 | 43 | 3 023 | 19 650 | 2 253 | 5 151 | 13 212 |
| | INCLUDED IN MANUFACTURES | 25 | 2 | ¹ 318 | ¹ 1 545 | ¹ 318 | 640 | 1 545 |
| | CRUSHED AND BROKEN STONE | 36 | 25 | 1 766 | 12 494 | 1 288 | 3 118 | 7 912 |
| 1421 | MINERAL INDUSTRY | 30 | 23 | 1 522 | 11 319 | 1 044 | 2 630 | 6 737 |
| | INCLUDED IN MANUFACTURES | 6 | 2 | ² 244 | ¹ 1 175 | ¹ 244 | 488 | 1 175 |
| | CRUSHED AND BROKEN LIMESTONE (MINERAL SUBINDUSTRY) | 7 | 5 | 279 | 1 797 | 205 | 552 | 1 182 |
| | CRUSHED AND BROKEN GRANITE (MINERAL SUBINDUSTRY) | 4 | 2 | 87 | 397 | 82 | 155 | 359 |
| | CRUSHED AND BROKEN STONE, N.E.C. ² MINERAL SUBINDUSTRY | 19 | 16 | 1 156 | 9 125 | 757 | 1 923 | 5 196 |
| | SAND AND GRAVEL | 116 | 20 | 1 388 | 7 662 | 1 170 | 2 443 | 6 372 |
| 144 | MINERAL INDUSTRY | 107 | 20 | 1 353 | 7 474 | 1 135 | 2 373 | 6 184 |
| | INCLUDED IN MANUFACTURES | 9 | - | ¹ 35 | ¹ 188 | ¹ 35 | 70 | 188 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 89 | 10 | 781 | 4 294 | 637 | 1 370 | 3 449 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | 18 | 10 | 572 | 3 180 | 498 | 1 003 | 2 735 |
| | CLAY AND RELATED MINERALS: INCLUDED IN MANUFACTURES | 10 | - | ¹ 39 | ¹ 182 | ¹ 39 | 82 | 182 |
| 1453 | FIRE CLAY (MINERAL INDUSTRY) | 7 | - | 51 | 198 | 47 | 85 | 181 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 59 384 | ² 26 059 | ¹ 77 286 | (NA) | 3 859 | 40 663 |
| | MINERAL INDUSTRIES | 55 232 | 25 326 | 72 401 | 8 157 | 3 748 | 37 638 |
| | INCLUDED IN MANUFACTURES | 4 152 | ² 733 | ¹ 4 885 | (NA) | ¹ 111 | 3 025 |
| 10 | METAL MINING | 9 237 | 2 089 | 10 597 | 729 | 1 029 | 8 667 |
| | NONMETALLIC MINERALS MINING | 50 147 | ² 33 970 | ¹ 66 689 | (NA) | 2 830 | 31 996 |
| 14 | MINERAL INDUSTRIES | 45 995 | 23 237 | 61 804 | 7 428 | 2 719 | 28 971 |
| | INCLUDED IN MANUFACTURES | 4 152 | ² 733 | ¹ 4 885 | (NA) | ¹ 111 | 3 025 |
| | CRUSHED AND BROKEN STONE | 27 225 | ³ 13 971 | ¹ 37 122 | (NA) | (NA) | (NA) |
| 1421 | MINERAL INDUSTRY | 25 184 | 13 526 | 34 636 | 4 074 | 1 138 | 14 747 |
| | INCLUDED IN MANUFACTURES | 2 041 | ³ 445 | ¹ 2 486 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN LIMESTONE (MINERAL SUBINDUSTRY) | 4 042 | 1 672 | 5 267 | 447 | 290 | 2 014 |
| | CRUSHED AND BROKEN GRANITE (MINERAL SUBINDUSTRY) | 1 270 | 495 | 1 732 | 33 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C. ² MINERAL SUBINDUSTRY | 19 872 | 11 359 | 27 637 | 3 594 | (NA) | (NA) |
| | SAND AND GRAVEL | 21 405 | ³ 9 072 | ¹ 27 882 | (NA) | (NA) | (NA) |
| 144 | MINERAL INDUSTRY | 19 822 | 8 930 | 26 157 | 2 595 | 1 174 | 12 889 |
| | INCLUDED IN MANUFACTURES | 1 583 | ³ 142 | ¹ 1 725 | (NA) | (NA) | (NA) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 11 502 | 4 971 | 15 172 | 1 301 | 4708 | 4 7785 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | 8 320 | 3 959 | 10 985 | 1 294 | 4466 | 4 5104 |
| | CLAY AND RELATED MINERALS: INCLUDED IN MANUFACTURES | 528 | ³ 146 | ¹ 674 | (NA) | (NA) | (NA) |
| 1453 | FIRE CLAY (MINERAL INDUSTRY) | 480 | 147 | 575 | 52 | 120 | 651 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C., Subindustries.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.⁴Figures for the Industrial Sand, N.E.C., Subindustry are included with those for the Construction Sand and Gravel Subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 25 326 | 18 820 | 641 | 723 | 5 142 | 8 157 | 366 | 7 791 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 2 089 | 1 693 | - | - | 396 | 729 | 296 | 433 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING . | 23 327 | 17 127 | 641 | 723 | 4 746 | 7 428 | 70 | 7 358 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . | 13 526 | ³ 11 078 | (³) | 205 | 2 243 | 4 074 | 13 | 4 061 | 12 133 | 32 203 | ⁴ 1 054 | ⁴ 2 440 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 1 672 | ³ 1 583 | (³) | 36 | 53 | 447 | 10 | 437 | 1 926 | 5 247 | ⁴ 38 | ⁴ 154 |
| | CRUSHED AND BROKEN STONE, N.E.C., SUB-INDUSTRY | 11 359 | ³ 9 000 | (³) | 169 | 2 190 | 3 594 | 2 | 3 592 | 9 341 | 25 224 | ⁴ 1 016 | ⁴ 2 286 |
| 1441 | SAND AND GRAVEL | 8 930 | ³ 6 477 | (³) | 508 | 1 945 | 2 595 | 56 | 2 539 | 14 714 | ⁵ 26 533 | ⁵ 1 383 | (⁶) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY . . | 4 971 | ³ 3 882 | (³) | 355 | 734 | 1 301 | 52 | 1 249 | 12 981 | ⁶ 15 649 | ⁴ 248 | (⁶) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Excludes figures for minerals produced and used in the same establishment.⁵Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry, and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|---|------------------------------------|--------------------------|--------------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 10 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 156 | 153 | 23 | 2 | 21 | - | 126 | 3 | 115 | 8 | 4 | 1 |
| | NUMBER OF EMPLOYEES..... | ² 3 488 | ² 3 480 | ² 394 | (D) | (D) | - | 2 959 | 362 | 2 492 | 105 | 122 | 8 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 55 230 | ² 55 226 | ² 3 956 | (D) | (D) | - | 49 691 | 5 597 | 43 072 | 1 022 | ¹ 573 | 4 |
| 14 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 6 | 5 | 1 | 1 | - | - | 4 | 3 | 1 | - | - | (D) |
| | NUMBER OF EMPLOYEES..... | ² 737 | (D) | (D) | (D) | - | - | (D) | 362 | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 9 237 | (D) | (D) | (D) | - | - | (D) | 5 597 | (D) | - | - | (D) |
| 142 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 150 | 148 | 22 | 1 | 21 | - | 122 | - | 114 | 8 | 4 | 2 |
| | NUMBER OF EMPLOYEES..... | 2 751 | (D) | (D) | (D) | (D) | - | (D) | - | (D) | 105 | 122 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 45 993 | (D) | (D) | (D) | (D) | - | (D) | - | (D) | 1 022 | ¹ 573 | (D) |
| 144 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 30 | 30 | 1 | 1 | - | - | 27 | - | 27 | - | 2 | - |
| | NUMBER OF EMPLOYEES..... | 1 313 | 1 313 | (D) | (D) | - | - | 1 235 | - | 1 235 | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 25 450 | 25 450 | (D) | (D) | - | - | 24 049 | - | 24 049 | - | (D) | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 107 | 105 | 14 | - | 14 | - | 89 | - | 81 | 8 | 2 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 353 | (D) | 105 | - | 105 | - | (D) | - | (D) | 105 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 19 822 | (D) | 1 161 | - | 1 161 | - | (D) | - | (D) | 1 022 | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for one metal mining service establishments.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 182 | 49 | 4 078 | 25 363 | 3 195 | 7 001 | 18 105 | 59 384 | 26 059 | 77 286 | (NA) | 3 859 | 40 663 |
| | MINERAL INDUSTRIES | 157 | 47 | 3 760 | 23 818 | 2 877 | 6 361 | 16 560 | 55 232 | 25 326 | 72 401 | 8 157 | 3 748 | 37 638 |
| | INCLUDED IN MANUFACTURES ² | 25 | 2 | 318 | 1 545 | 318 | 640 | 1 545 | 4 152 | 733 | 4 885 | (NA) | 111 | 3 025 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ATLANTIC COUNTY, TOTAL | 10 | - | 50 | 219 | 43 | 72 | 186 | 554 | 213 | 640 | 127 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 10 | - | 50 | 219 | 43 | 72 | 186 | 554 | 213 | 640 | 127 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 10 | - | 50 | 219 | 43 | 72 | 186 | 554 | 213 | 640 | 127 | 20 | 179 |
| | BURLINGTON COUNTY, TOTAL | 7 | 2 | 95 | 632 | 73 | 172 | 450 | 1 442 | 386 | 1 686 | 142 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 2 | 95 | 632 | 73 | 172 | 450 | 1 442 | 386 | 1 686 | 142 | 63 | 542 |
| | CAMDEN COUNTY, TOTAL | 8 | 2 | 138 | 592 | 114 | 232 | 476 | 1 614 | 492 | 1 939 | 167 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | 2 | 138 | 592 | 114 | 232 | 476 | 1 614 | 492 | 1 939 | 167 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 8 | 2 | 138 | 592 | 114 | 232 | 476 | 1 614 | 492 | 1 939 | 167 | 140 | 1 431 |
| | CUMBERLAND COUNTY, TOTAL | 19 | 8 | 520 | 2 864 | 454 | 929 | 2 487 | 7 482 | 3 656 | 9 837 | 1 301 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 19 | 8 | 520 | 2 864 | 454 | 929 | 2 487 | 7 482 | 3 656 | 9 837 | 1 301 | 526 | 5 495 |
| | GLOUCESTER COUNTY, TOTAL | 8 | ... | 43 | 203 | 38 | 88 | 183 | 506 | 289 | 762 | 33 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | ... | 43 | 203 | 38 | 88 | 183 | 506 | 289 | 762 | 33 | 29 | 411 |
| | MIDDLESEX COUNTY, TOTAL. | 14 | 2 | 294 | 1 955 | 106 | 194 | 454 | 1 101 | 491 | 1 388 | 204 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 8 | 2 | 104 | 512 | 77 | 146 | 348 | 782 | 429 | 1 034 | 177 | 86 | 869 |
| | MONMOUTH COUNTY, TOTAL | 8 | 1 | 65 | 289 | 54 | 113 | 239 | 685 | 334 | 982 | 37 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | 1 | 65 | 289 | 54 | 113 | 239 | 685 | 334 | 982 | 37 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 8 | 1 | 65 | 289 | 54 | 113 | 239 | 685 | 334 | 982 | 37 | 68 | 782 |
| | MORRIS COUNTY, TOTAL | 20 | 6 | 527 | 3 274 | 452 | 939 | 2 729 | 8 918 | 3 252 | 11 687 | 483 | 1 067 | 11 681 |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL. | 13 | 1 | 109 | 703 | 85 | 195 | 540 | 2 342 | 1 609 | 3 765 | 186 | 68 | 247 |
| | OCEAN COUNTY, TOTAL. | 15 | 3 | 262 | 1 484 | 214 | 458 | 1 227 | 3 962 | 1 519 | 4 846 | 635 | (NA) | (NA) |
| | PASSAIC COUNTY, TOTAL. | 9 | 4 | 210 | 1 652 | 151 | 371 | 1 112 | 2 741 | 1 562 | 4 100 | 203 | (NA) | (NA) |
| | SOMERSET COUNTY, TOTAL | 8 | 6 | 548 | 3 900 | 416 | 1 040 | 2 186 | 12 733 | 8 059 | 17 715 | 3 077 | (NA) | (NA) |
| | SUSSEX COUNTY, TOTAL | 10 | 4 | 567 | 3 596 | 429 | 993 | 2 544 | 7 426 | 2 613 | 9 640 | 399 | 501 | 2 593 |
| | WARREN COUNTY, TOTAL | 6 | 1 | 110 | 661 | 96 | 204 | 563 | 1 524 | 250 | 1 764 | 10 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

[illegible]

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| UNDISTRIBUTED, TOTAL | 1 | 1 | = | = | = | = | = | = | = | = | = | = | = | = | = | = | = | 1 | = | = | = | = | = | = | = | = | = | = | = | = |
| 0-19 EMPLOYEES | 1 | 1 | = | = | = | = | = | = | = | = | = | = | = | = | = | = | = | 1 | = | = | = | = | = | = | = | = | = | = | = | = |

Standard Notes: - Represents zero.

n.e.o. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

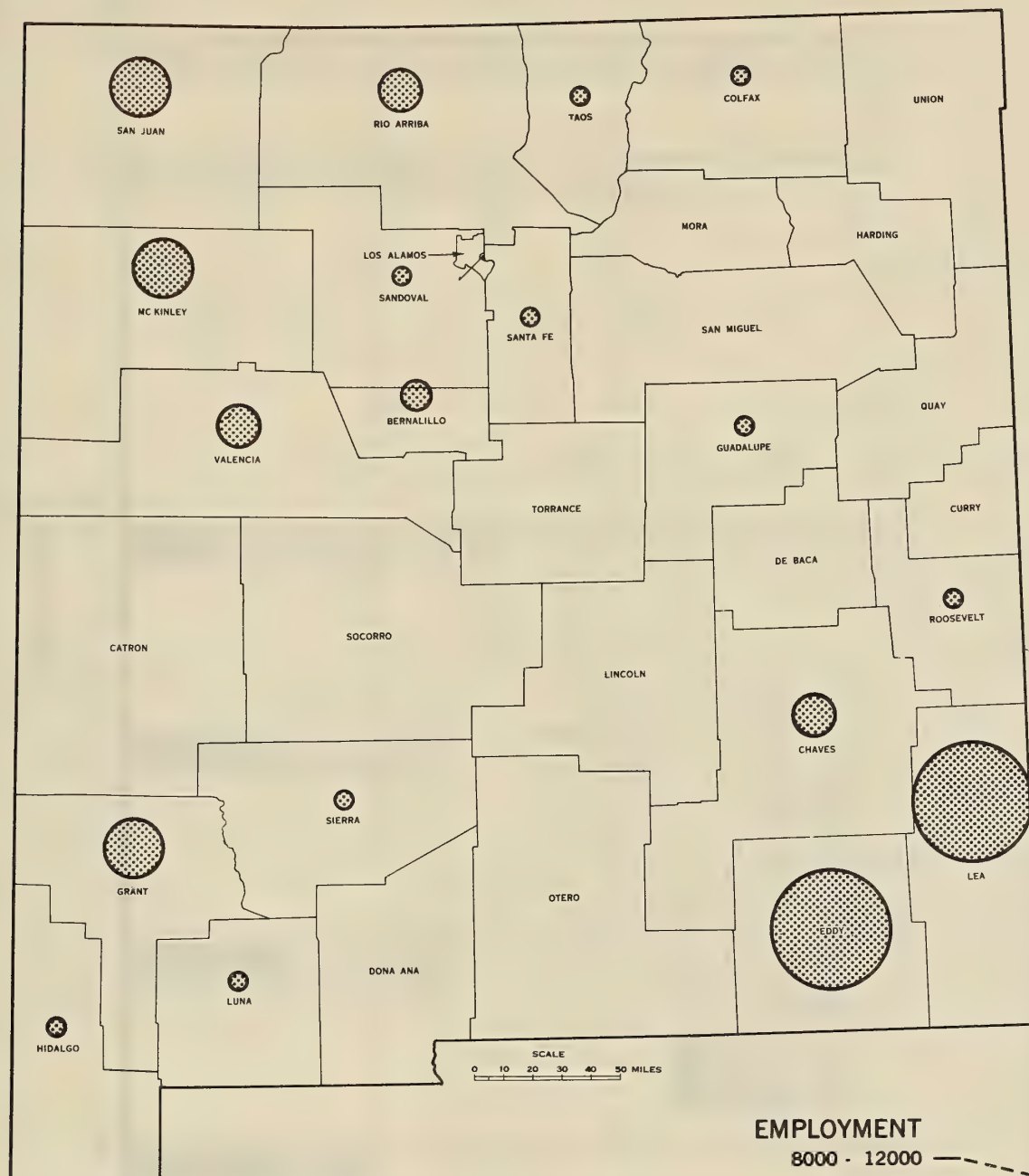
EMPLOYMENT IN MINING BY COUNTY: 1963

NEW MEXICO

RANK AMONG STATES

EMPLOYMENT - 9

VALUE OF SHIPMENT - 7



EMPLOYMENT

8000 - 12000

4000 - 7999

2000 - 3999

1000 - 1999

500 - 999

200 - 499

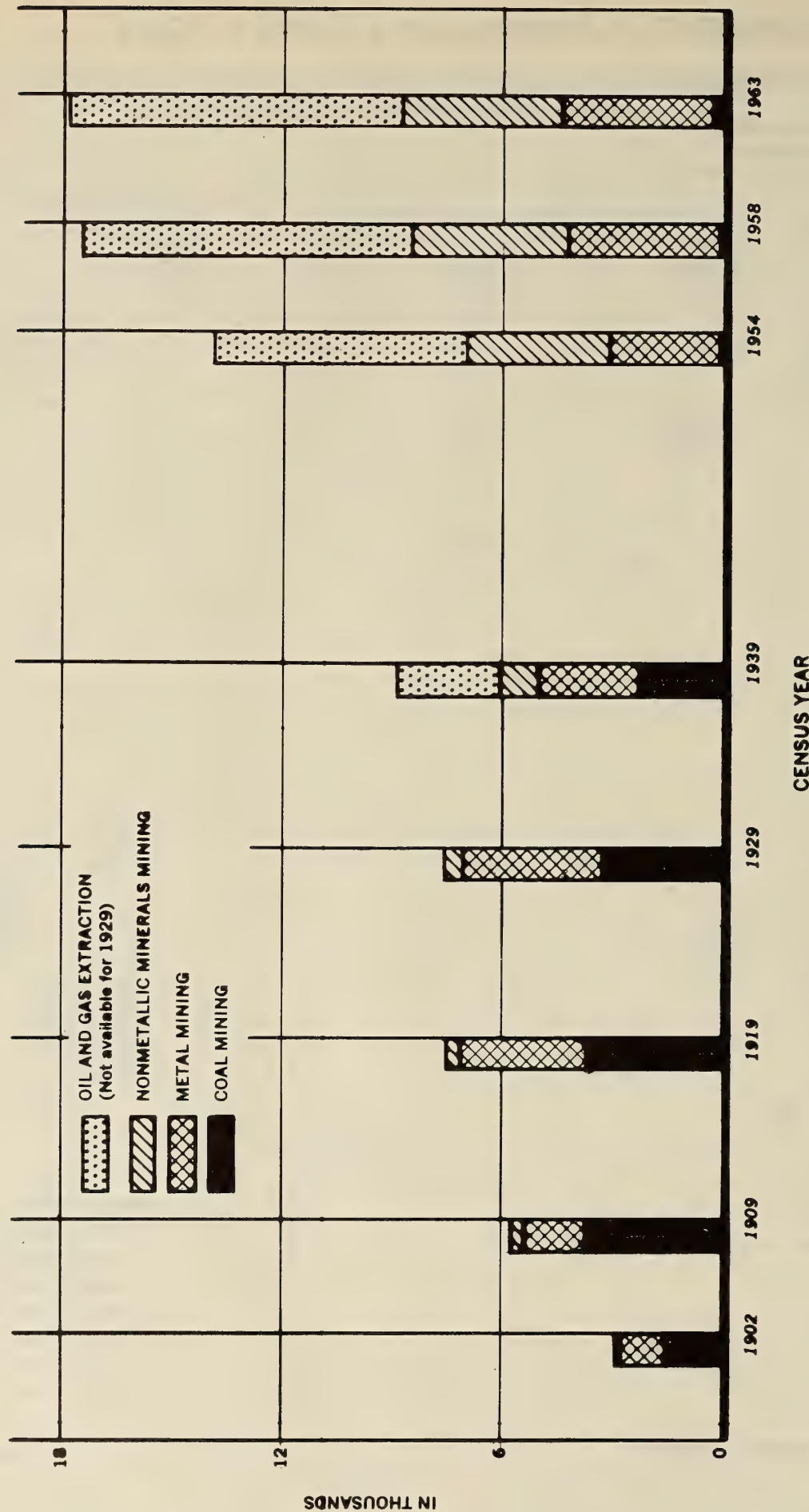
25 - 199



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEW MEXICO



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|---|--------------------------------|--|--|--|--------------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: ² | | | | | | | | | |
| 1963 | ¹ 865 | ¹ 149 | 17 638 | 114 565 | 13 776 | 27 978 | 85 356 | 649 569 | |
| 1958 | 761 | 142 | 17 483 | 97 213 | 13 541 | 28 068 | 70 076 | 531 972 | |
| 1954 | 691 | 119 | 13 934 | 65 784 | 11 545 | 23 599 | 51 274 | ² 338 096 | |
| INCLUDING OPERATIONS IN MANUFACTURES: ² | | | | | | | | | |
| 1963 | ¹ 881 | ¹ 151 | 17 779 | 115 290 | 13 912 | 28 247 | 86 056 | 653 223 | |
| 1958 | 770 | 142 | 17 552 | 97 493 | 13 609 | 28 197 | 70 355 | 534 146 | |
| 1954 ³ | 693 | 119 | 13 934 | 65 784 | 11 545 | 23 599 | 51 274 | ² 338 096 | |
| 1939 ⁴ | ² 286 | (NA) | 8 921 | 12 720 | 8 065 | 14 817 | 10 605 | 44 683 | |
| 1929 ⁶ | 93 | (NA) | 7 638 | 11 558 | 7 116 | (NA) | 10 250 | 20 884 | |
| 1919 ⁷ | 103 | (NA) | 7 688 | 11 912 | 7 216 | (NA) | 10 710 | 13 373 | |
| 1909 ⁷ | 154 | (NA) | 5 833 | 4 336 | 5 429 | (NA) | 3 819 | 4 203 | |
| 1902 ⁷ | ² 320 | (NA) | 2 915 | 2 218 | ⁸ 2 633 | (NA) | 1 918 | 1 939 | |
| Kind of operation and year | Selected expenses | | | | | Value of shipments and receipts ¹⁰ (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation ⁹ (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (million) | | Per production worker (1,000) | | |
| MINERAL INDUSTRIES ONLY: ² | | | | | | | | | |
| 1963 | 118 926 | 134 824 | 84 847 | 39 159 | 876 934 | 150 391 | 22 452 | 1 630 | 1 575 |
| 1958 | 119 823 | 89 911 | 139 258 | 47 837 | 704 630 | 224 171 | 19 431 | 1 435 | (NA) |
| 1954 | 67 887 | 5 773 | 72 572 | 41 036 | ² 403 274 | 121 656 | 12 384 | 1 073 | 825 |
| INCLUDING OPERATIONS IN MANUFACTURES: ² | | | | | | | | | |
| 1963 | ¹¹ 119 459 | 134 824 | ¹¹ 84 847 | ¹² 39 159 | 881 121 | ¹² 150 391 | ¹² 22 452 | 1 630 | ¹² 1 575 |
| 1958 | ¹¹ 120 090 | 89 911 | ¹¹ 139 258 | ¹² 47 837 | 707 071 | ¹² 224 171 | ¹² 19 431 | 1 428 | (NA) |
| 1954 ³ | ¹¹ 67 887 | 5 773 | ¹¹ 72 572 | ¹² 41 036 | ² 403 274 | ¹² 121 656 | ¹² 12 384 | 1 073 | ¹² 825 |
| 1939 ⁴ | 6 955 | (NA) | 7 522 | (NA) | 59 160 | (NA) | 9 234 | 1 145 | 166 |
| 1929 ⁶ | 6 140 | (NA) | 118 | 1 209 | 27 142 | (NA) | ¹³ 1 941 | 273 | 92 |
| 1919 ⁷ | 5 357 | 10 | 133 | (NA) | 18 873 | (NA) | 1 891 | 262 | 61 |
| 1909 ⁷ | 1 222 | - | 163 | (NA) | 5 588 | (NA) | (NA) | (NA) | 17 |
| 1902 ⁷ | 626 | (NA) | 121 | (NA) | 2 686 | (NA) | (NA) | (NA) | 9 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Figures for number of establishments in 1963 are not entirely comparable with those for earlier years. For 1963, operators of oil and gas field properties were asked to make separate reports by districts for East and West New Mexico, whereas only one report was required for the State in previous years.

²Excludes data for the Uranium-Radium-Vanadium Ores Industry.

³Except for number of establishments, excludes data for 2 operations in manufacturing establishments.

⁴Includes data for 4 or less service establishments engaged in oil and gas field machine shop work. Such establishments were not classified in the mineral industries in 1954 and 1958.

⁵Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas mining services industries, number of operating companies.

⁶Excludes the oil and gas extraction industries; in 1939, there were about 179 operations reported in these industries with value of shipments and receipts amounting to about \$37,649 thousand, but only one establishment was reported in these industries in 1919. Also, excludes common clay and shale operations; there were 4 such operations in 1939, with products valued at \$422 thousand.

⁷Excludes data for sand, gravel, common clay, and shale operations. For 1929, only one producing sand and gravel establishment was reported.

⁸Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.

⁹For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants, but for 1954, includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, the figures represent net production and exclude this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments and for 1963 for dimension stone mines in manufacturing establishments, cost of contract work is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, and for 1963, excludes data for dimension stone mines in manufacturing establishments.

¹³Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 0.9 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|---------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 881 | 151 | 17 779 | 115 290 | 13 912 | 28 247 | 86 056 |
| | MINERAL INDUSTRIES | 865 | 149 | 17 638 | 114 565 | 13 776 | 27 978 | 85 356 |
| | INCLUDED IN MANUFACTURES | 16 | 2 | ¹ 141 | ¹ 725 | ¹ 136 | 269 | 700 |
| 10 | METAL MINING | 66 | 18 | 4 182 | ² 32 014 | 3 129 | ² 7 215 | ² 23 765 |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES | 26 | 7 | 2 433 | 19 270 | 1 827 | 4 200 | 14 821 |
| 12 | BITUMINOUS COAL MINING | 21 | 3 | 317 | (²) | 273 | (²) | (²) |
| 13 | OIL AND GAS EXTRACTION | 682 | 111 | 8 972 | 53 941 | 7 081 | 14 239 | 40 356 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 420 | 41 | 4 215 | 27 903 | 2 752 | 5 465 | 16 890 |
| | CRUDE PETROLEUM. | 335 | 33 | 2 886 | 20 268 | 1 863 | 3 726 | 11 988 |
| | NATURAL GAS. | 85 | 8 | 1 329 | 7 635 | 889 | 1 739 | 4 902 |
| 1321 | NATURAL GAS LIQUIDS. | 31 | 18 | 767 | 5 170 | 675 | 1 401 | 4 513 |
| 138 | OIL AND GAS FIELD SERVICES | 231 | 52 | 3 990 | 20 868 | 3 654 | 7 373 | 18 953 |
| 1381 | DRILLING OIL AND GAS WELLS | 84 | 30 | 2 248 | 13 470 | 2 107 | 4 257 | 12 532 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 13 | 2 | 180 | 835 | 133 | 347 | 739 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . | 134 | 20 | 1 562 | 6 563 | 1 414 | 2 769 | 5 682 |
| | NONMETALLIC MINERALS MINING. | 112 | 19 | 4 308 | 29 335 | 3 429 | 6 793 | 21 935 |
| 14 | MINERAL INDUSTRIES | 96 | 17 | 4 167 | 28 610 | 3 293 | 6 524 | 21 235 |
| | INCLUDED IN MANUFACTURES | 16 | 2 | ¹ 141 | ¹ 725 | ¹ 136 | 269 | 700 |
| | CRUSHED AND BROKEN STONE | 7 | - | 65 | 289 | 63 | 126 | 286 |
| 1421 | MINERAL INDUSTRY | 4 | - | 40 | 143 | 38 | 77 | 140 |
| | INCLUDED IN MANUFACTURES | 3 | - | ¹ 25 | ¹ 146 | ¹ 25 | 49 | 146 |
| | SAND AND GRAVEL. | 58 | 6 | 411 | 2 062 | 384 | 771 | 1 953 |
| 1441 | MINERAL INDUSTRY | 50 | 5 | 326 | 1 621 | 299 | 601 | 1 512 |
| | INCLUDED IN MANUFACTURES | 8 | 1 | ¹ 85 | ¹ 441 | ¹ 85 | 170 | 441 |
| 147 | CHEMICAL AND FERTILIZER MINERAL MINING. | 17 | 7 | 3 553 | 25 258 | 2 729 | 5 412 | 18 144 |
| 1474 | POTASH, SODA, AND BORATE MINERALS. . | 7 | 6 | 3 500 | 25 075 | 2 699 | 5 364 | 18 081 |
| 1481 | NONMETALLIC MINERALS SERVICES. . . . | 5 | 3 | 115 | 957 | 109 | 223 | 922 |
| | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 20 | 2 | 133 | 631 | 118 | 211 | 517 |
| 149 | GYPSUM. | 3 | - | ¹ 12 | ¹ 70 | ¹ 10 | 21 | 54 |
| 1495 | PUMICE AND PUMICITE | 11 | - | 37 | 203 | 35 | 65 | 197 |
| 1499 | NONMETALLIC MINERALS, N.E.C. . . . | 4 | 1 | 46 | 242 | 37 | 70 | 167 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 653 223 | ³ 378 297 | ¹ 881 121 | (NA) | 17 552 | 534 146 | |
| | MINERAL INDUSTRIES | 649 569 | 377 756 | 876 934 | 150 391 | 17 483 | 531 972 | |
| | INCLUDED IN MANUFACTURES | 3 654 | ³ 541 | ⁴ 187 | (NA) | ¹ 69 | 2 174 | |
| 10 | METAL MINING | ² 112 109 | ² 67 813 | ² 167 086 | ² 12 836 | 4 206 | 82 423 | |
| | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES | 72 340 | 38 332 | 105 260 | 5 412 | 2 184 | 62 787 | |
| 12 | BITUMINOUS COAL MINING | (²) | (²) | (²) | (²) | 156 | 1 184 | |
| 13 | OIL AND GAS EXTRACTION | 448 211 | 273 490 | 599 830 | 121 871 | 9 030 | 381 223 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 376 268 | 137 213 | 401 682 | 111 799 | 4 605 | 314 428 | |
| | CRUDE PETROLEUM. | 322 134 | 107 475 | 343 329 | 86 280 | 3 367 | 280 831 | |
| | NATURAL GAS. | 54 134 | 29 738 | 58 353 | 25 519 | 1 238 | 33 597 | |
| 1321 | NATURAL GAS LIQUIDS. | 31 344 | 111 757 | 138 726 | 4 375 | 771 | 28 851 | |
| 138 | OIL AND GAS FIELD SERVICES | 40 599 | 24 520 | 59 422 | 5 697 | 3 654 | 37 944 | |
| 1381 | DRILLING OIL AND GAS WELLS | 26 313 | 18 410 | 40 936 | 3 787 | 2 114 | 23 865 | |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 1 274 | 950 | 2 172 | 52 | 415 | 4 475 | |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. . . | 13 012 | 5 160 | 16 314 | 1 858 | 1 125 | 9 604 | |
| | NONMETALLIC MINERALS MINING. | 92 903 | ³ 36 994 | ¹ 114 205 | (NA) | 4 160 | 69 316 | |
| 14 | MINERAL INDUSTRIES | 89 249 | 36 453 | 110 018 | 15 684 | 4 091 | 67 142 | |
| | INCLUDED IN MANUFACTURES | 3 654 | ³ 541 | ⁴ 187 | (NA) | ¹ 69 | 2 174 | |
| | CRUSHED AND BROKEN STONE | 1 230 | ³ 401 | ¹ 602 | (NA) | (NA) | (NA) | |
| 1421 | MINERAL INDUSTRY | 549 | 198 | 718 | 29 | (NA) | (NA) | |
| | INCLUDED IN MANUFACTURES | 681 | ² 203 | ¹ 884 | (NA) | (NA) | (NA) | |
| | SAND AND GRAVEL. | 5 912 | ³ 278 | ¹ 600 | (NA) | 359 | 5 826 | |
| 1441 | MINERAL INDUSTRY | 3 432 | 2 002 | 4 844 | 590 | 309 | 3 769 | |
| | INCLUDED IN MANUFACTURES | 2 480 | ² 276 | ² 756 | (NA) | ¹ 50 | 2 057 | |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|------------------------------------|--|--|-----------------------------------|---------------------------|------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 147 | CHEMICAL AND FERTILIZER MINERAL MINING. | 81 673 | 31 510 | 98 659 | 14 524 | 3 554 | 60 470 |
| 1474 | POTASH, SODA, AND BORATE MINERALS. | 81 151 | 31 326 | 98 069 | 14 408 | 3 503 | 60 141 |
| 1481 | NONMETALLIC MINERALS SERVICES. | 1 614 | 1 415 | 2 788 | 241 | (NA) | (NA) |
| | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES. | 1 981 | 1 328 | 3 009 | 300 | 170 | 2 221 |
| 149 | GYPSUM. | 470 | 352 | 812 | (NA) | (NA) | (NA) |
| 1495 | PUMICE AND PUMICITE. | 634 | 451 | 875 | 210 | 60 | 813 |
| 1499 | NONMETALLIC MINERALS, N.E.C. | 972 | 307 | 1 228 | 51 | 101 | 1 350 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Figures for Bituminous Coal Mining are included with those for Metal Mining.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 377 756 | 118 926 | 134 824 | 84 847 | 39 159 | 150 391 | 67 700 | 82 691 | (x) | (x) | (x) | (x) |
| | METAL MINING: | | | | | | | | | | | | |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES. | 38 332 | 19 905 | 11 796 | 1 882 | 4 749 | 5 412 | 613 | 4 799 | ² 625 | (D) | - | - |
| 13 | OIL AND GAS EXTRACTION. | 273 490 | 67 201 | 105 612 | 75 748 | 24 929 | 121 871 | 61 602 | 60 269 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 137 213 | 46 700 | - | 71 892 | 18 621 | 111 799 | 61 486 | 50 313 | (x) | 399 816 | (x) | 1 813 |
| | CRUDE PETROLEUM. | 107 475 | 37 342 | - | 55 671 | 14 462 | 86 280 | 47 208 | 39 072 | ⁴ 105 394 | 302 115 | ⁴ 445 | 11 392 |
| | NATURAL GAS. | 29 738 | 9 358 | - | 16 221 | 4 159 | 25 519 | 14 278 | 11 241 | ⁵ 378 578 | 47 891 | ⁵ 380 120 | 40 231 |
| 1321 | NATURAL GAS LIQUIDS. | 111 757 | 4 191 | 105 612 | 430 | 1 524 | 4 375 | - | 4 375 | ⁶ 23 225 | (D) | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 24 520 | 16 310 | - | 3 426 | 4 784 | 5 697 | 116 | 5 581 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 18 410 | 12 995 | - | 2 576 | 2 839 | 3 787 | 113 | 3 674 | (x) | ⁷ 39 911 | (x) | (⁷) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 5 160 | 2 960 | - | 307 | 1 893 | 1 858 | 3 | 1 855 | (x) | ⁷ 16 436 | (x) | (⁷) |
| 14 | NONMETALLIC MINERALS MINING. | 36 453 | ⁸ 25 664 | (⁸) | 4 598 | 6 191 | 15 684 | 3 824 | 11 860 | (x) | (x) | (x) | (x) |
| 147 | CHEMICAL AND FERTILIZER MINERALS. | 31 510 | ⁸ 22 708 | (⁸) | 3 668 | 5 134 | 14 524 | 3 774 | 10 750 | (x) | (x) | (x) | (x) |
| 1474 | POTASH, SODA, AND BORATE MINERALS. | 31 326 | ⁸ 22 574 | (⁸) | 3 619 | 5 133 | 14 408 | 3 771 | 10 637 | 4 222 | (D) | - | - |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Represents crude ore mined.

⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁵Represents millions of cubic feet of natural gas shipped.

⁶Represents net shipments of natural gas liquids only, reported in thousands of barrels.

⁷Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

⁸Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 625 | 580 | 462 | 36 | 29 | 397 | 77 | 12 | 60 | 5 | 41 | 45 |
| | NUMBER OF EMPLOYEES..... | 13 103 | 12 940 | 5 301 | (D) | 736 | (D) | 6 277 | 5 385 | 489 | 403 | 1 362 | 163 |
| | VALUE ADDED IN MINING.....\$1,000.. | 609 505 | 607 197 | 409 576 | (D) | 24 771 | (D) | 155 537 | 136 890 | 6 782 | 11 865 | 42 084 | 2 308 |
| 13 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 451 | 427 | 396 | - | - | 396 | - | - | - | - | 31 | 24 |
| | NUMBER OF EMPLOYEES..... | 4 877 | 4 823 | 4 056 | - | - | 4 056 | - | - | - | - | 767 | 54 |
| | VALUE ADDED IN MINING.....\$1,000.. | 408 555 | 408 518 | 377 174 | - | - | 377 174 | - | - | - | - | 31 344 | 37 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 420 | 396 | 396 | - | - | 396 | - | - | - | - | - | 24 |
| | NUMBER OF EMPLOYEES..... | 4 110 | 4 056 | 4 056 | - | - | 4 056 | - | - | - | - | - | 54 |
| | VALUE ADDED IN MINING.....\$1,000.. | 377 211 | 377 174 | 377 174 | - | - | 377 174 | - | - | - | - | - | 37 |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 31 | 31 | - | - | - | - | - | - | - | - | 31 | - |
| | NUMBER OF EMPLOYEES..... | 767 | 767 | - | - | - | - | - | - | - | - | 767 | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 31 344 | 31 344 | - | - | - | - | - | - | - | - | 31 344 | - |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 91 | 83 | 17 | - | 17 | - | 64 | 6 | 55 | 3 | 5 | 5 |
| | NUMBER OF EMPLOYEES..... | 4 003 | 3 992 | 56 | - | 56 | - | (D) | 3 496 | 377 | (D) | (D) | 11 |
| | VALUE ADDED IN MINING.....\$1,000.. | 87 036 | 87 039 | 659 | - | 659 | - | (D) | 81 130 | 4 633 | (D) | (D) | (²) |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 17 | 14 | 5 | - | 5 | - | 7 | 6 | 1 | - | 2 | 3 |
| | NUMBER OF EMPLOYEES..... | 3 553 | (D) | 4 | - | 4 | - | (D) | 3 496 | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 81 673 | (D) | 108 | - | 108 | - | (D) | 81 130 | (D) | - | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 881 | 151 | 17 779 | 115 290 | 13 912 | 28 247 | 86 056 | 653 223 | 378 297 | 881 121 | (NA) | 17 552 | 534 146 |
| | MINERAL INDUSTRIES. | 865 | 149 | 17 638 | 114 565 | 13 776 | 27 978 | 85 356 | 649 569 | 377 756 | 876 934 | 150 391 | 17 483 | 531 972 |
| | INCLUDED IN MANUFACTURES ² | 16 | 2 | 141 | 725 | 136 | 269 | 700 | 3 654 | 541 | 4 187 | (NA) | 69 | 2 174 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BERNALILLO COUNTY, TOTAL. | 30 | 5 | 246 | 1 330 | 137 | 277 | 621 | 4 566 | 1 213 | 4 426 | 1 353 | 339 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 14 | 3 | 131 | 853 | 24 | 50 | 152 | 3 267 | 294 | 2 356 | 1 205 | 222 | (NA) |
| | CHAVES COUNTY, TOTAL. | 94 | 8 | 632 | 4 442 | 281 | 572 | 1 500 | 9 859 | 4 430 | 11 067 | 3 222 | 605 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 87 | 7 | 551 | 3 913 | 237 | 491 | 1 265 | 9 331 | 4 094 | 10 340 | 3 085 | 566 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 45 | 7 | 439 | 3 428 | 139 | 282 | 864 | 8 159 | 3 422 | 8 640 | 2 941 | 472 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 42 | - | 112 | 485 | 98 | 209 | 401 | 1 172 | 672 | 1 700 | 144 | 94 | (NA) |
| | EDDY COUNTY, TOTAL. | 270 | 21 | 4 680 | 31 717 | 3 796 | 7 527 | 24 303 | 129 041 | 48 065 | 151 053 | 26 053 | 4 186 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 251 | 13 | 1 221 | 7 034 | 1 111 | 2 203 | 6 281 | 52 709 | 21 192 | 60 665 | 13 236 | 832 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 132 | 5 | 478 | 3 037 | 427 | 854 | 2 657 | 42 764 | 13 386 | 45 333 | 10 817 | 404 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 5 | - | 63 | 412 | 62 | 124 | 403 | 2 316 | 2 376 | 4 041 | 651 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 114 | 8 | 680 | 3 585 | 622 | 1 225 | 3 221 | 7 629 | 5 430 | 11 291 | 1 768 | (NA) | (NA) |
| 147 | CHEMICAL & FERTILIZER MINERALS. . | 12 | 6 | 3 354 | 23 811 | 2 587 | 5 127 | 17 192 | 75 013 | 25 733 | 88 241 | 12 505 | 3 323 | 57 300 |
| | GUADALUPE COUNTY, TOTAL. | 6 | 1 | 45 | 302 | 43 | 88 | 287 | 599 | 225 | 794 | 30 | (NA) | (NA) |
| | LEA COUNTY, TOTAL. | 462 | 71 | 5 015 | 30 841 | 4 185 | 8 584 | 24 094 | 284 876 | 148 451 | 370 186 | 63 141 | 5 094 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 226 | 18 | 1 473 | 10 225 | 1 065 | 2 083 | 6 985 | 225 047 | 69 581 | 241 667 | 52 961 | 2 011 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 19 | 13 | 515 | 3 493 | 441 | 903 | 2 949 | 23 761 | 53 727 | 73 867 | 3 621 | (NA) | (NA) |
| | LUNA COUNTY, TOTAL. | 10 | 2 | 151 | 968 | 100 | 198 | 542 | 17 833 | 8 591 | 20 105 | 6 319 | 39 | (NA) |
| | MCKINLEY COUNTY, TOTAL. | 26 | 6 | 1 934 | 15 828 | 1 441 | 3 345 | 12 153 | 57 847 | 43 500 | 96 632 | 4 715 | 1 041 | (NA) |
| | RIO ARriba COUNTY, TOTAL. | 75 | 2 | 542 | 2 805 | 404 | 827 | 2 080 | 17 740 | 11 874 | 21 615 | 7 999 | 378 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 48 | 1 | 421 | 2 114 | 299 | 602 | 1 512 | 15 405 | 8 773 | 16 872 | 7 306 | 6 | (NA) |
| | ROOSEVELT COUNTY, TOTAL. | 56 | 2 | 156 | 1 015 | 123 | 294 | 781 | 8 489 | 3 369 | 9 851 | 2 007 | 69 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 56 | 2 | 156 | 1 015 | 123 | 294 | 781 | 8 489 | 3 369 | 9 851 | 2 007 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 31 | - | 37 | 252 | 13 | 26 | 80 | 7 259 | 2 312 | 7 780 | 1 791 | 27 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 25 | 2 | 119 | 763 | 110 | 268 | 701 | 1 230 | 1 057 | 2 071 | 216 | (NA) | (NA) |
| | SAN JUAN COUNTY, TOTAL. | 189 | 21 | 1 967 | 12 210 | 1 421 | 3 038 | 8 368 | 72 526 | 83 413 | 125 488 | 30 451 | 2 473 | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 178 | 19 | 1 738 | 10 830 | 1 238 | 2 696 | 7 262 | 69 356 | 74 978 | 116 429 | 27 905 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 89 | 6 | 847 | 5 366 | 465 | 943 | 2 673 | 54 714 | 28 524 | 56 848 | 26 390 | 879 | (NA) |
| | SANTA FE COUNTY, TOTAL. | 12 | 1 | 85 | 409 | 70 | 122 | 290 | 680 | 561 | 1 094 | 147 | 66 | 174 |
| 14 | NONMETALLIC MINERALS MINING | 8 | 1 | 72 | 323 | 64 | 110 | 264 | 596 | 512 | 978 | 130 | (NA) | (NA) |
| | TAOS COUNTY, TOTAL. | 7 | 2 | 131 | 802 | 120 | 239 | 705 | 3 561 | 1 165 | 1 528 | 3 198 | 96 | (NA) |
| | UNDISTRIBUTED, TOTAL. | 75 | 5 | 493 | 2 090 | 450 | 798 | 1 752 | 6 559 | 3 648 | 8 970 | 1 237 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION. | 75 | 5 | 493 | 2 090 | 450 | 798 | 1 752 | 6 559 | 3 648 | 8 970 | 1 237 | 891 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . | 14 | - | 46 | 149 | 41 | 55 | 101 | 2 504 | 1 438 | 3 241 | 701 | 128 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES. | 61 | 5 | 447 | 1 941 | 409 | 743 | 1 651 | 4 055 | 2 210 | 5 729 | 536 | 763 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SAN JUAN COUNTY: TOTAL | 190 | 189 | 1 | - | 1 | - | - | - | - | - | 5 | - | - | 2 | 2 | 89 | 5 | 84 | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 169 | 168 | 1 | - | 1 | - | - | - | - | - | 4 | - | - | 1 | 2 | 83 | 1 | 75 | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 5 | 4 | 9 | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| SAN MIGUEL COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | 1 | - | - | |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | 1 | - | - | |
| SANTA FE COUNTY: TOTAL | 14 | 12 | 2 | - | - | - | - | - | - | - | 2 | - | - | 1 | - | 1 | - | - | - | - | - | - | 4 | 1 | - | - | - | - | 4 | 1 |
| 0-19 EMPLOYEES | 13 | 11 | 2 | - | - | - | - | - | - | - | 2 | - | - | 1 | - | 1 | - | - | - | - | - | - | 4 | 1 | - | - | - | - | 3 | 1 |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| SIERRA COUNTY: TOTAL | 8 | 8 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| SOCORRO COUNTY: TOTAL | 12 | 12 | - | 1 | 2 | 2 | - | - | 2 | 1 | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | 1 | 2 | 2 | - | - | 2 | 1 | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - |
| TAOS COUNTY: TOTAL | 7 | 7 | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 3 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| TORRANCE COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| UNION COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 1 | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 1 | - |
| VALENCIA COUNTY: TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | 6 | - | - | - | - | 1 | - | 3 | - | - | - | - | 2 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 1 | - | 2 | - | - | - | - | 2 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 61 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 70 | 70 | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 56 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

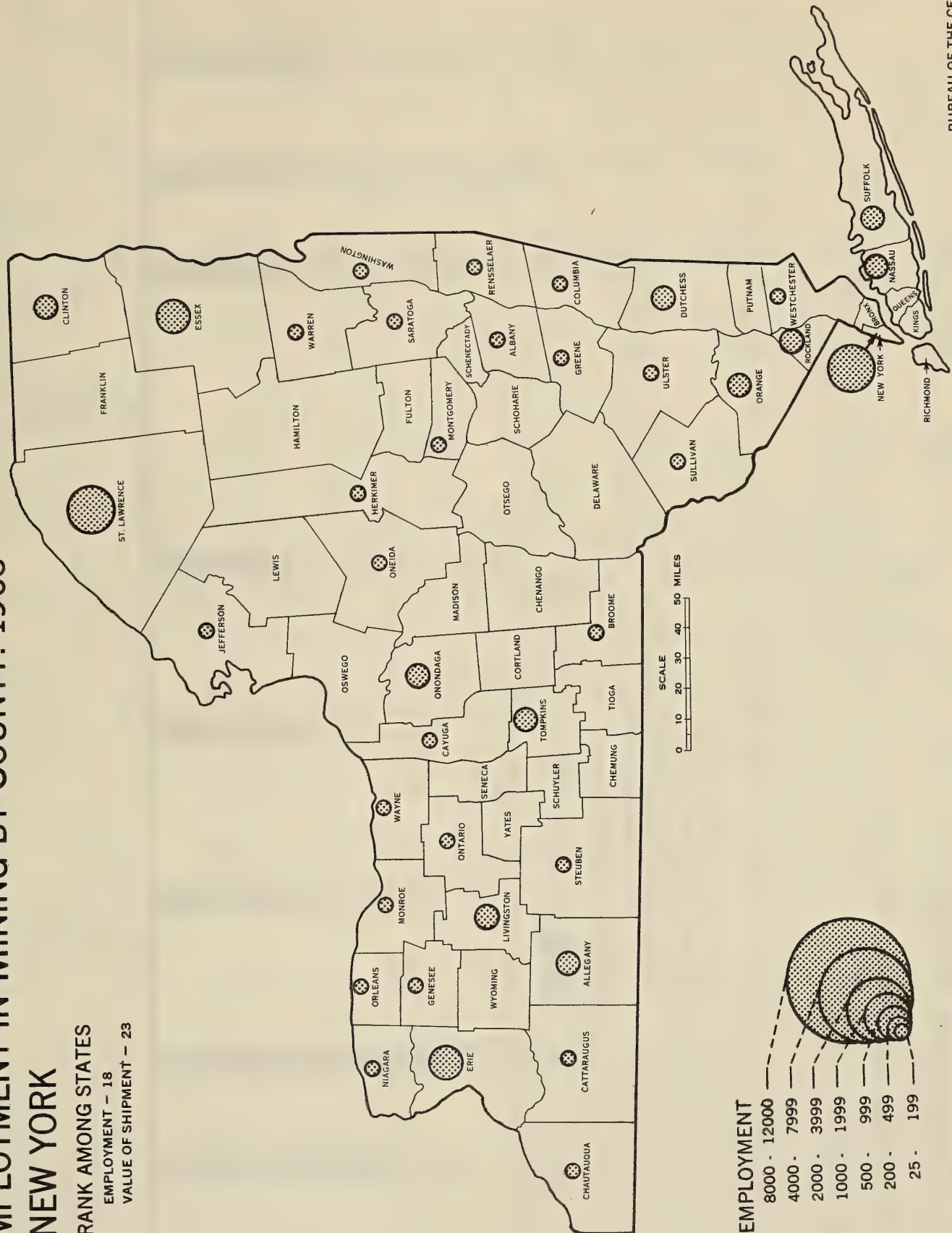
(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

NEW YORK

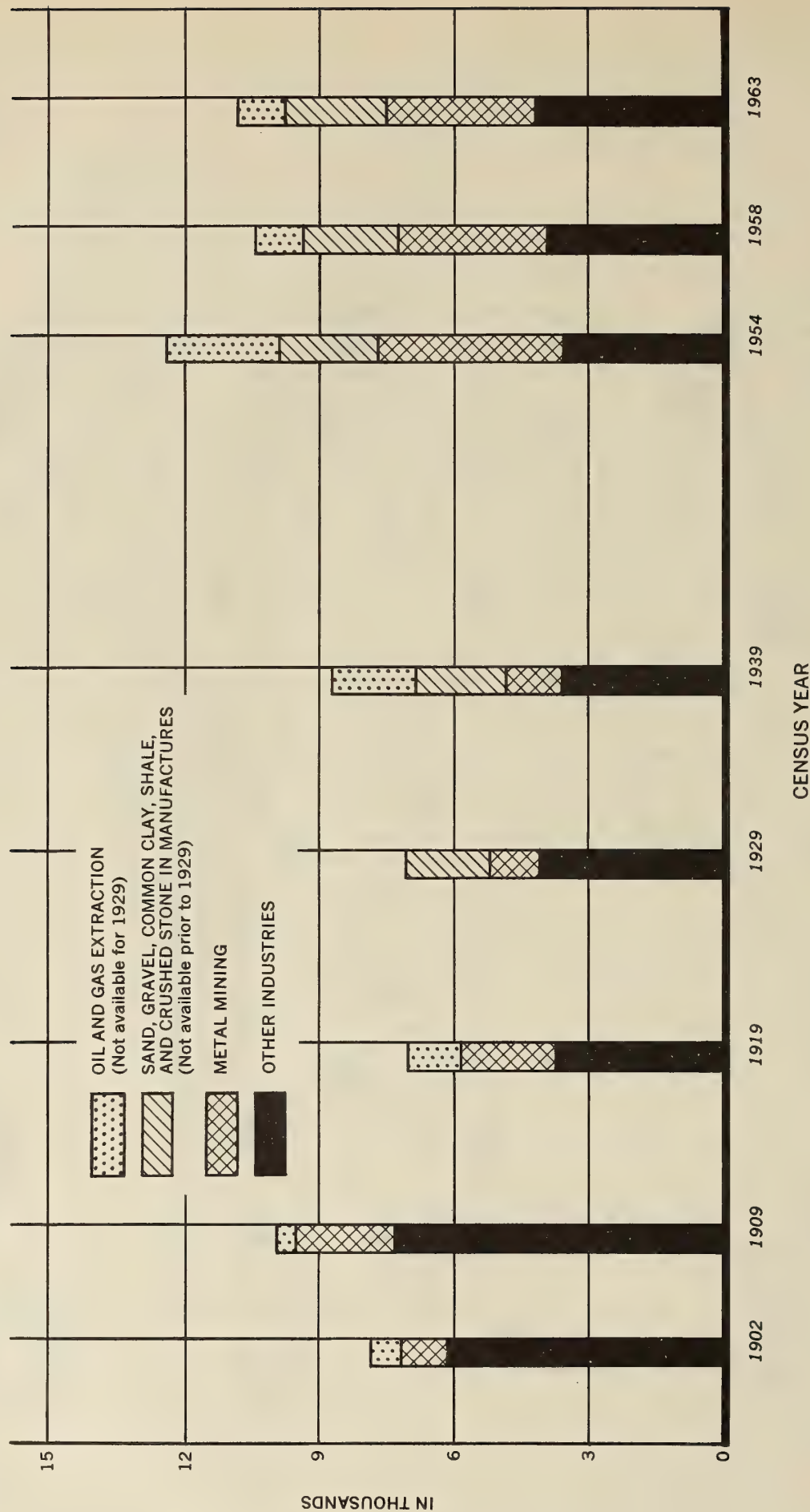
RANK AMONG STATES
EMPLOYMENT - 18
VALUE OF SHIPMENT - 23



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NEW YORK



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|--|---|---------------------------------------|-------------------|-------------------------------|--|----------------------|-------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 518 | 69 | 9 878 | 71 222 | 6 643 | 13 947 | 41 317 | 129 730 |
| 1958. | 543 | 69 | 9 657 | 57 027 | 6 405 | 13 626 | 34 002 | 115 960 |
| 1954. | 629 | 68 | 11 517 | 62 881 | 7 641 | 16 907 | 35 247 | 96 838 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | 590 | 79 | 10 654 | 75 123 | 7 405 | 15 458 | 45 167 | 141 771 |
| 1958. | 622 | 82 | 10 460 | 60 533 | 7 177 | 15 142 | 37 400 | 129 591 |
| 1954 ¹ | 694 | 80 | 12 364 | 66 310 | 8 469 | 18 612 | 38 544 | 104 719 |
| 1939 ² | 518 | (NA) | 8 737 | 15 430 | 7 084 | 14 682 | 9 696 | 32 817 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | 400 | 73 | 9 608 | 68 223 | 6 754 | 14 078 | 41 853 | 132 179 |
| 1958. | 387 | 75 | 9 366 | 54 500 | 6 478 | 13 811 | 34 825 | 122 144 |
| 1954 ¹ | 387 | 71 | 9 858 | 54 102 | 7 288 | 16 347 | 34 779 | 95 708 |
| 1939 ⁴ | 3291 | (NA) | 6 861 | 12 517 | 5 483 | 11 710 | 7 702 | 22 150 |
| 1929 ⁵ | 261 | (NA) | 7 124 | 12 567 | 6 432 | (NA) | 10 030 | 28 448 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS: | | | | | | | | |
| 1963. | 312 | 53 | 8 342 | 60 925 | 5 477 | 11 577 | 33 985 | 107 862 |
| 1958. | 358 | 59 | 8 328 | 48 456 | 5 498 | 11 606 | 28 396 | 96 728 |
| 1954. | 429 | 56 | 10 217 | 56 114 | 6 665 | 14 505 | 30 273 | 77 883 |
| 1939 ⁶ | 3349 | (NA) | 6 741 | 12 150 | 5 286 | (NA) | 7 002 | 25 069 |
| 1919. | 700 | (NA) | 7 017 | 8 929 | 6 202 | (NA) | 7 497 | 15 524 |
| 1909. | 1 356 | (NA) | 9 950 | 5 433 | 9 316 | (NA) | 4 723 | 10 212 |
| 1902 ⁸ | 3 699 | (NA) | 7 858 | 4 592 | 7 197 | (NA) | 3 947 | 7 713 |
| Selected expenses | | | | | | | | |
| Kind of operation and year | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Value of shipments and receipts ¹⁰ | Capital expenditures | Energy used (kwh. equivalent) | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | Total (million) | Horsepower rating of power equipment (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963. | 35 357 | 3 320 | 5 093 | 8 371 | 166 561 | 15 310 | 3 105 | 467 |
| 1958. | 29 493 | 4 979 | 4 021 | 5 930 | 147 603 | 12 780 | 2 766 | 432 |
| 1954. | 26 460 | 340 | 4 961 | 12 194 | 128 393 | 12 400 | 3 256 | 426 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963. | 1139 199 | 3 320 | 115 103 | 128 444 | 182 449 | 1215 388 | 123 105 | 467 |
| 1958. | 1131 925 | 4 979 | 114 038 | 126 058 | 163 658 | 1212 933 | 122 772 | 386 |
| 1954 ¹ | 1128 672 | 340 | 115 028 | 1212 234 | 138 508 | 1212 485 | 123 268 | 386 |
| 1939 ² | 6 982 | (NA) | 1 431 | (NA) | 41 230 | (NA) | 1 700 | 241 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963. | 1136 940 | 3 320 | 112 809 | 127 879 | 171 041 | 1212 086 | 123 019 | 447 |
| 1958. | 1130 234 | 4 979 | 112 910 | 125 695 | 154 900 | 1211 062 | 122 445 | 377 |
| 1954 ¹ | 1125 082 | 340 | 114 009 | 1211 320 | 127 050 | 129 409 | 2 777 | 381 |
| 1939 ⁴ | 5 998 | (NA) | 159 | (NA) | 28 307 | (NA) | 1 183 | 216 |
| 1929 ⁵ | 7 491 | (NA) | 106 | 1 710 | 36 045 | (NA) | 1 288 | 194 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS: | | | | | | | | |
| 1963. | 30 389 | 3 067 | 114 025 | 126 702 | 139 245 | 1212 800 | 122 605 | 476 |
| 1958. | 25 760 | 4 930 | 113 228 | 124 406 | 124 356 | 1210 696 | 122 383 | 433 |
| 1954. | 1123 251 | 340 | 114 124 | 129 741 | 104 738 | 1210 601 | 123 107 | 466 |
| 1939 ⁷ | 5 416 | (NA) | 1 369 | (NA) | 31 854 | (NA) | (NA) | (NA) |
| 1919. | 6 126 | 2 692 | 789 | (NA) | 25 131 | (NA) | 131 423 | 229 |
| 1909. | 2 540 | 66 | 517 | (NA) | 13 335 | (NA) | (NA) | (NA) |
| 1902 ⁸ | 1 630 | (NA) | 351 | (NA) | 9 694 | (NA) | (NA) | (NA) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes figures for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing sandstone and slate at such operations was \$78 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for granite is not available.

³Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Includes figures for one natural gas liquids plant and 4 nonproducing crude petroleum and natural gas establishments. See also footnote 5.

⁵Excludes figures for common clay and shale mining operations. In 1939, there were 34 such mines with products valued at \$420 thousand. Also excludes data for 2 nonproducing establishments.

⁶Includes figures for 24 sand and gravel mining operations in manufacturing establishments with products valued at less than \$3 million.

⁷Includes figures for 4 or less limestone quarries operated as parts of lime plants and for one nonproducing sand and gravel establishment. See also footnote 5.

⁸Includes figures for lime plants producing lime valued at \$561 thousand.

⁹Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

¹¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For energy used and horsepower in 1963, also excludes figures for dimension stone operations in manufactures.

¹²Excludes figures for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹³Excludes purchased electric energy. For such operations in 1954, the quantity of purchased electric energy amounted to only 9 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 590 | 79 | 10 654 | 75 123 | 7 405 | 15 458 | 45 167 |
| | MINERAL INDUSTRIES | 518 | 69 | 9 878 | 71 222 | 6 643 | 13 947 | 41 317 |
| | INCLUDED IN MANUFACTURES | 72 | 10 | ¹ 776 | ¹³ 901 | ¹ 762 | 1 511 | 3 850 |
| 10 | METAL MINING | 8 | 7 | 3 153 | 23 881 | 1 909 | 3 601 | 12 166 |
| 1011 | IRON ORES. | 4 | 3 | 1 267 | 8 710 | 1 135 | 2 089 | 7 500 |
| 13 | OIL AND GAS EXTRACTION | 190 | 6 | 1 046 | 6 900 | 651 | 1 380 | 3 314 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 160 | 5 | 864 | 5 857 | 494 | 999 | 2 423 |
| | CRUDE PETROLEUM. | 147 | 4 | 659 | 4 338 | 332 | 673 | 1 364 |
| | NATURAL GAS. | 13 | 1 | 205 | 1 519 | 162 | 326 | 1 059 |
| 138 | OIL AND GAS FIELD SERVICES | 30 | 1 | 182 | 1 043 | 157 | 381 | 891 |
| 1381 | DRILLING OIL AND GAS WELLS | 18 | - | 94 | 540 | 81 | 180 | 468 |
| 14 | NONMETALLIC MINERALS MINING. | 392 | 66 | 6 265 | 42 353 | 4 845 | 10 477 | 29 687 |
| | MINERAL INDUSTRIES | 320 | 56 | 5 489 | 38 452 | 4 083 | 8 966 | 25 837 |
| | INCLUDED IN MANUFACTURES | 72 | 10 | ¹³ 776 | ¹³ 901 | ¹ 762 | 1 511 | 3 850 |
| 141 | DIMENSION STONE. | 22 | 3 | 206 | 779 | 181 | 341 | 673 |
| | MINERAL INDUSTRY | 10 | 1 | 76 | 280 | 65 | 122 | 225 |
| | INCLUDED IN MANUFACTURES | 12 | 2 | 130 | 499 | 116 | 219 | 448 |
| | DIMENSION STONE, N.E.C.. | 16 | 2 | 162 | 636 | 144 | 272 | 554 |
| | INCLUDED IN MANUFACTURES | 10 | 2 | 121 | 465 | 109 | 205 | 421 |
| 1421 | CRUSHED AND BROKEN STONE | 81 | 32 | 2 355 | 15 895 | 1 867 | 4 168 | 11 862 |
| | MINERAL INDUSTRY | 67 | 28 | 2 176 | 14 832 | 1 688 | 3 811 | 10 799 |
| | INCLUDED IN MANUFACTURES | 14 | 4 | 179 | 1 063 | 179 | 357 | 1 063 |
| | CRUSHED AND BROKEN LIMESTONE . . . | 60 | 27 | 1 788 | 11 250 | 1 508 | 3 342 | 9 173 |
| | MINERAL SUBINDUSTRY. | 52 | 23 | 1 648 | 10 429 | 1 368 | 3 062 | 8 352 |
| | INCLUDED IN MANUFACTURES | 8 | 4 | ¹ 140 | ¹ 821 | ¹ 140 | 280 | 821 |
| 144 | SAND AND GRAVEL. | 244 | 19 | 1 942 | 11 916 | 1 571 | 3 119 | 9 037 |
| | MINERAL INDUSTRY | 217 | 19 | 1 701 | 10 819 | 1 330 | 2 637 | 7 940 |
| | INCLUDED IN MANUFACTURES | 27 | - | ¹ 241 | ¹ 097 | ¹ 241 | 482 | 1 097 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 204 | 19 | 1 612 | 10 227 | 1 284 | 2 561 | 7 720 |
| | INDUSTRIAL SAND SUBINDUSTRY ² . . . | 13 | - | 89 | 592 | 46 | 76 | 220 |
| | CLAY AND RELATED MINERALS, N.E.C.. . | 20 | 3 | ¹ 191 | ¹ 219 | ¹ 178 | 405 | 1 082 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES | 14 | 3 | 530 | 3 603 | 432 | 950 | 2 985 |
| | GYPSUM | 5 | 3 | ¹ 49 | ¹ 907 | ¹ 145 | 286 | 879 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 141 771 | ³ 56 066 | ¹ 182 449 | ⁴ 15 388 | 10 460 | 129 591 | |
| | MINERAL INDUSTRIES | 129 730 | 52 141 | 166 561 | 15 310 | 9 657 | 115 960 | |
| | INCLUDED IN MANUFACTURES | 12 041 | ³ 3 925 | ¹⁵ 888 | ⁴ 78 | ¹ 803 | 13 631 | |
| 10 | METAL MINING | 36 254 | 17 001 | 49 751 | 3 504 | 3 281 | 32 553 | |
| 1011 | IRON ORES. | 21 158 | 7 080 | 26 464 | 1 774 | 1 037 | 16 390 | |
| 13 | OIL AND GAS EXTRACTION | 9 592 | 5 118 | 11 408 | 3 302 | 1 094 | 7 447 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 7 970 | 4 347 | 9 135 | 3 182 | 987 | 6 725 | |
| | CRUDE PETROLEUM. | 6 830 | 3 230 | 8 054 | 2 006 | 889 | 5 649 | |
| | NATURAL GAS. | 1 140 | 1 117 | 1 081 | 1 176 | 98 | 1 076 | |
| 138 | OIL AND GAS FIELD SERVICES | 1 622 | 771 | 2 273 | 120 | 107 | 722 | |
| 1381 | DRILLING OIL AND GAS WELLS | 933 | 441 | 1 279 | 95 | 71 | 483 | |
| 14 | NONMETALLIC MINERALS MINING. | 95 925 | ³ 33 947 | ¹ 121 290 | ⁴ 8 582 | 6 003 | 89 591 | |
| | MINERAL INDUSTRIES | 83 884 | 30 022 | 105 402 | 8 504 | 5 200 | 75 960 | |
| | INCLUDED IN MANUFACTURES | 12 041 | ³ 3 925 | ¹⁵ 888 | ⁴ 78 | ¹ 803 | 13 631 | |
| 141 | DIMENSION STONE. | 1 330 | 833 | 2 043 | 120 | (NA) | (NA) | |
| | MINERAL INDUSTRY | 587 | 184 | 729 | 42 | 69 | 473 | |
| | INCLUDED IN MANUFACTURES | 743 | 649 | 1 314 | 78 | (NA) | (NA) | |
| | DIMENSION STONE, N.E.C.. | 1 018 | 703 | 1 642 | 79 | 241 | 1 457 | |
| | INCLUDED IN MANUFACTURES | 688 | 605 | 1 221 | 72 | 183 | 1 086 | |
| 1421 | CRUSHED AND BROKEN STONE | 39 730 | 15 459 | 51 834 | (NA) | 2 311 | 35 918 | |
| | MINERAL INDUSTRY | 35 958 | 14 506 | 47 109 | 3 355 | 2 068 | 30 195 | |
| | INCLUDED IN MANUFACTURES | 3 772 | 953 | 4 725 | (NA) | 243 | 5 723 | |
| | CRUSHED AND BROKEN LIMESTONE . . . | 31 480 | ³ 11 958 | ¹ 40 821 | (NA) | (NA) | (NA) | |
| | MINERAL SUBINDUSTRY. | 28 319 | 11 277 | 36 979 | 2 617 | 1 697 | 23 892 | |
| | INCLUDED IN MANUFACTURES | 3 161 | ³ 681 | ¹³ 842 | (NA) | (NA) | (NA) | |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|------------------------------------|--|--|-----------------------------------|---------------------------|------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 144 | NONMETALLIC MINERALS MINING--CON. | | | | | | |
| | SAND AND GRAVEL | 28 206 | ³ 9 506 | ¹³ 5 124 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 23 488 | 8 228 | 29 128 | 2 588 | 1 753 | 25 375 |
| | INCLUDED IN MANUFACTURES | 4 718 | ¹ 1 278 | ¹⁵ 996 | (NA) | (NA) | (NA) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 22 773 | 8 017 | 28 254 | 2 536 | ⁵ 1 646 | ⁵² 4 740 |
| 149 | INDUSTRIAL SAND SUBINDUSTRY ² | 715 | 211 | 874 | 52 | ⁵ 107 | ⁵ 635 |
| | CLAY AND RELATED MINERALS, N.E.C.. | 1 931 | ¹ 1 668 | ¹³ 355 | (NA) | ¹ 136 | 1 765 |
| | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES | 7 829 | 2 563 | 9 531 | 861 | (NA) | (NA) |
| | GYPSUM | 1 862 | (D) | ¹² 623 | (NA) | ¹² 42 | 2 857 |
| | | | | | | | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employed at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C. Subindustries.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments excludes the cost of purchased machinery installed.⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁵Figures for the Industrial Sand, N.E.C. Subindustry are included with those for the Construction Sand and Gravel Subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|--------------------|--|--|----------------------------|--|----------------------|--|--|---|---------------------|--|--------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other construction, machinery, and equipment ² (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 52 141 | 35 357 | 3 320 | 5 093 | 8 371 | 15 310 | 3 896 | 11 414 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING. | 17 001 | 11 582 | 2 500 | 1 272 | 1 647 | 3 504 | 1 612 | 1 892 | (X) | (X) | (X) | (X) |
| 1011 | IRON ORES | 7 080 | 6 821 | - | 19 | 240 | 1 774 | 1 352 | 422 | ³² 388 | ³²⁹ 376 | (³) | (³) |
| 13 | OIL AND GAS EXTRACTION. | 5 118 | 2 259 | - | 2 294 | 565 | 3 302 | 1 964 | 1 338 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 4 347 | 1 596 | - | 2 229 | 522 | 3 182 | 1 964 | 1 218 | (X) | 8 970 | (X) | 16 |
| | CRUDE PETROLEUM SUB-INDUSTRY | 3 230 | 1 280 | - | 1 741 | 209 | 2 006 | 1 473 | 533 | ⁴¹ 963 | 7 847 | ⁴¹⁴ | 64 |
| 14 | NONMETALLIC MINERALS MINING | 30 022 | 21 516 | 820 | 1 527 | 6 159 | 8 504 | 320 | 8 184 | (X) | (X) | (X) | (X) |
| 1421 | CRUSHED AND BROKEN STONE. | 14 506 | 10 768 | 567 | 426 | 2 745 | 3 355 | 55 | 3 300 | 22 906 | 43 012 | ⁵³ 252 | ⁵⁴ 884 |
| | CRUSHED AND BROKEN LIME-STONE SUBINDUSTRY. | 11 277 | ⁶⁸ 817 | (⁶) | 408 | 2 052 | 2 617 | 11 | 2 606 | 19 035 | 33 744 | ⁷¹⁴⁰ | ⁷²¹¹ |
| 1441 | SAND AND GRAVEL | 8 228 | 5 493 | 253 | 839 | 1 643 | 2 588 | 124 | 2 464 | 24 273 | ⁵⁸³³ 782 | ⁵⁴ 195 | (⁸) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 8 017 | 5 488 | 253 | 813 | 1 463 | 2 536 | 124 | 2 412 | 24 060 | ⁸³⁰ 624 | ⁷² 607 | (⁸) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 2 563 | 2 383 | - | 13 | 167 | 861 | 118 | 743 | (X) | (X) | (X) | (X) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents direct-shipping iron ore, iron concentrates for consumption, and iron agglomerates. Figures for shipments of primary products by establishments classified in other industries are included with those for shipments of primary products by establishments classified in the specified industry. Quantity represents thousands of long tons.⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁵Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.⁶The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.⁷Excludes figures for minerals produced and used in the same establishment.⁸Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 485 | 468 | 206 | - | 59 | 147 | 255 | 10 | 238 | 7 | 7 | 17 |
| | NUMBER OF EMPLOYEES..... | ² 7 563 | ² 7 541 | 810 | - | (D) | (D) | 6 509 | 1 656 | 4 595 | 258 | 222 | ² 22 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 129 730 | ² 129 580 | 9 577 | - | (D) | (D) | 113 990 | 29 912 | 80 923 | 3 155 | 6 013 | ² 150 |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 8 | 7 | - | - | - | - | 6 | 4 | 2 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 2 126 | (D) | - | - | - | - | (D) | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 36 254 | (D) | - | - | - | - | (D) | (D) | (D) | - | (D) | (D) |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 4 | 3 | - | - | - | - | 3 | 2 | 1 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 1 260 | (D) | - | - | - | - | (D) | (D) | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 21 158 | (D) | - | - | - | - | (D) | (D) | (D) | - | - | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 160 | 147 | 147 | - | - | 147 | - | - | - | - | - | 13 |
| | NUMBER OF EMPLOYEES..... | 622 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 9 592 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 317 | 314 | 59 | - | 59 | - | 249 | 6 | 236 | 7 | 6 | 3 |
| | NUMBER OF EMPLOYEES..... | ² 4 815 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | 258 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 83 884 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | 3 155 | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 67 | 67 | 2 | - | 2 | - | 62 | - | 62 | - | 3 | - |
| | NUMBER OF EMPLOYEES..... | 1 968 | 1 968 | (D) | - | (D) | - | 1 900 | - | 1 900 | - | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 36 191 | 36 191 | (D) | - | (D) | - | 35 306 | - | 35 306 | - | (D) | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 217 | 215 | 43 | - | 43 | - | 169 | - | 163 | 6 | 3 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 582 | (D) | 77 | - | 77 | - | 1 454 | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 23 488 | (D) | 745 | - | 745 | - | 21 331 | - | (D) | (D) | (D) | (D) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 14 | 13 | 2 | - | 2 | - | 11 | 3 | 7 | 1 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 521 | (D) | (D) | - | (D) | - | 506 | (D) | 145 | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 999 | (D) | (D) | - | (D) | - | 7 728 | (D) | 2 037 | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for three nonmetallic mining service establishments.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | (number) | (number) |
| | ALL MINERAL OPERATIONS | 590 | 79 | 10 634 | 75 123 | 7 405 | 15 458 | 45 167 | 141 771 | 56 066 | 182 449 | 15 388 | 10 460 | 129 591 |
| | MINERAL INDUSTRIES | 518 | 69 | 9 878 | 71 222 | 6 643 | 13 947 | 41 317 | 129 730 | 52 141 | 166 561 | 15 310 | 9 657 | 115 960 |
| | INCLUDED IN MANUFACTURES ² | 72 | 10 | 776 | 3 901 | 762 | 1 511 | 3 850 | 12 041 | 3 925 | 15 888 | 78 | 803 | 13 631 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALBANY COUNTY, TOTAL | 12 | 4 | 195 | 1 271 | 151 | 349 | 1 085 | 2 829 | 2 710 | 5 143 | 396 | (NA) | (NA) |
| | ALLEGANY COUNTY, TOTAL | 103 | 3 | 378 | 1 812 | 282 | 583 | 1 187 | 3 557 | 1 194 | 4 045 | 706 | 536 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 100 | 3 | 319 | 1 371 | 259 | 534 | 1 063 | 3 207 | 1 089 | 3 631 | 665 | 506 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 79 | 3 | 266 | 1 132 | 213 | 440 | 849 | 2 870 | 951 | 3 206 | 615 | 455 | (NA) |
| | CATTARAUGUS COUNTY, TOTAL | 59 | 2 | 196 | 919 | 174 | 354 | 838 | 4 425 | 1 322 | 4 764 | 983 | 233 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 49 | 1 | 113 | 500 | 100 | 196 | 451 | 3 398 | 779 | 3 341 | 836 | 162 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 35 | 1 | 95 | 433 | 85 | 166 | 391 | 3 212 | 716 | 3 110 | 818 | 133 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 10 | 1 | 83 | 419 | 74 | 158 | 387 | 1 027 | 543 | 1 423 | 147 | (NA) | (NA) |
| | DUTCHESS COUNTY, TOTAL | 18 | 1 | 206 | 1 804 | 178 | 436 | 1 536 | 7 649 | 1 704 | 8 938 | 415 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 18 | 1 | 206 | 1 804 | 178 | 436 | 1 536 | 7 649 | 1 704 | 8 938 | 415 | 198 | 2 247 |
| | ERIE COUNTY, TOTAL | 21 | 7 | 532 | 3 899 | 336 | 686 | 2 223 | 4 975 | 3 577 | 7 481 | 1 071 | 468 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 14 | 6 | 339 | 2 408 | 229 | 470 | 1 501 | 4 710 | 3 311 | 7 105 | 916 | 329 | 5 996 |
| 142 | CRUSHED AND BROKEN STONE | 4 | 4 | 256 | 1 804 | 167 | 346 | 1 105 | 2 967 | 2 674 | 4 958 | 683 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 7 | 1 | 43 | 411 | 28 | 60 | 234 | 1 238 | 411 | 1 484 | 165 | (NA) | (NA) |
| | GENESEE COUNTY, TOTAL | 9 | 1 | 72 | 378 | 56 | 95 | 281 | 1 200 | 457 | 1 564 | 93 | 114 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 4 | 1 | 39 | 204 | 31 | 49 | 148 | 825 | 292 | 1 034 | 83 | 94 | 763 |
| | HERKIMER COUNTY, TOTAL | 5 | - | 47 | 297 | 43 | 96 | 287 | 619 | 665 | 712 | 572 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | - | 47 | 297 | 43 | 96 | 287 | 619 | 665 | 712 | 572 | (NA) | (NA) |
| | JEFFERSON COUNTY, TOTAL | 7 | 1 | 50 | 221 | 43 | 90 | 198 | 765 | 182 | 925 | 22 | 67 | 847 |
| 14 | NONMETALLIC MINERALS MINING | 7 | 1 | 50 | 221 | 43 | 90 | 198 | 765 | 182 | 925 | 22 | (NA) | (NA) |
| | MONROE COUNTY, TOTAL | 13 | 3 | 193 | 851 | 172 | 397 | 744 | 2 053 | 862 | 2 589 | 326 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 13 | 3 | 193 | 851 | 172 | 397 | 744 | 2 053 | 862 | 2 589 | 326 | 159 | 1 950 |
| | NASSAU COUNTY, TOTAL | 13 | 6 | 368 | 2 375 | 315 | 635 | 1 859 | 8 644 | 4 582 | 12 909 | 317 | 511 | 13 115 |
| | ONEIDA COUNTY, TOTAL | 13 | 2 | 172 | 1 223 | 138 | 282 | 869 | 2 277 | 941 | 2 874 | 344 | 293 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 13 | 2 | 149 | 937 | 138 | 282 | 869 | 2 277 | 941 | 2 874 | 344 | (NA) | (NA) |
| | ONONDAGA COUNTY, TOTAL | 15 | 2 | 358 | 2 117 | 344 | 709 | 2 036 | 4 943 | 1 189 | 5 917 | 215 | 368 | 4 771 |
| | ONTARIO COUNTY, TOTAL | 10 | 1 | 62 | 345 | 54 | 121 | 306 | 1 012 | 272 | 1 166 | 118 | 65 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | 1 | 55 | 303 | 47 | 104 | 268 | 897 | 200 | 1 002 | 95 | (NA) | (NA) |
| | ORANGE COUNTY, TOTAL | 11 | 1 | 212 | 1 842 | 59 | 91 | 330 | 985 | 384 | 1 277 | 92 | 61 | 714 |
| 14 | NONMETALLIC MINERALS MINING | 11 | 1 | 68 | 364 | 59 | 91 | 330 | 985 | 384 | 1 277 | 92 | (NA) | (NA) |
| | ORLEANS COUNTY, TOTAL | 7 | - | 37 | 187 | 33 | 79 | 166 | 454 | 154 | 566 | 42 | (NA) | (NA) |
| | RENSSELAER COUNTY, TOTAL | 14 | 1 | 52 | 289 | 49 | 101 | 276 | 658 | 185 | 814 | 29 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 14 | 1 | 52 | 289 | 49 | 101 | 276 | 658 | 185 | 814 | 29 | (NA) | (NA) |
| | ROCKLAND COUNTY, TOTAL | 9 | 3 | 392 | 3 500 | 231 | 546 | 1 910 | 7 287 | 1 416 | 8 533 | 170 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | 4 | - | 28 | 191 | 28 | 50 | 191 | 545 | 299 | 789 | 55 | (NA) | (NA) |
| | ST LAWRENCE COUNTY, TOTAL | 17 | 5 | 1 417 | 9 318 | 1 249 | 2 554 | 8 202 | 27 756 | 8 211 | 33 442 | 2 525 | 1 551 | 21 647 |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 14 | SARATOGA COUNTY, TOTAL | 9 | 1 | 46 | 283 | 40 | 77 | 195 | 600 | 172 | 730 | 42 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 9 | 1 | 44 | 272 | 40 | 77 | 195 | 600 | 172 | 730 | 42 | (NA) | (NA) |
| | STEUBEN COUNTY, TOTAL. | 11 | - | 31 | 215 | 26 | 68 | 129 | 527 | 401 | 757 | 171 | 44 | (NA) |
| 14 144 | SUFFOLK COUNTY, TOTAL. | 22 | 4 | 330 | 2 802 | 240 | 525 | 2 020 | 5 877 | 1 176 | 6 765 | 288 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 22 | 4 | 330 | 2 802 | 240 | 525 | 2 020 | 5 877 | 1 176 | 6 765 | 288 | (NA) | (NA) |
| | SAND AND GRAVEL. | 22 | 4 | 330 | 2 802 | 240 | 525 | 2 020 | 5 877 | 1 176 | 6 765 | 288 | 417 | 6 736 |
| 14 | SULLIVAN COUNTY, TOTAL. | 9 | 1 | 85 | 416 | 72 | 139 | 339 | 678 | 403 | 1 000 | 81 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 9 | 1 | 85 | 416 | 72 | 139 | 339 | 678 | 403 | 1 000 | 81 | 50 | 703 |
| | ULSTER COUNTY, TOTAL. | 9 | 3 | 167 | 1 098 | 136 | 348 | 946 | 2 257 | 2 511 | 4 340 | 428 | (NA) | (NA) |
| 14 | WESTCHESTER COUNTY, TOTAL. | 7 | - | 68 | 328 | 52 | 94 | 215 | 647 | 203 | 691 | 159 | 65 | 703 |
| | NONMETALLIC MINERALS MINING. | 7 | - | 60 | 280 | 52 | 94 | 215 | 647 | 203 | 691 | 159 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL. | 16 | - | 30 | 159 | 25 | 53 | 134 | 367 | 119 | 448 | 38 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 16 | - | 30 | 159 | 25 | 53 | 134 | 367 | 119 | 448 | 38 | 65 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 7 | - | 12 | 46 | 8 | 17 | 29 | 173 | 30 | 189 | 14 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| LEWIS COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - |
| LIVINGSTON COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | 1 | - | 4 | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | |
| MADISON COUNTY, TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | - | 1 | - | - | - | - | - | - |
| MONROE COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 10 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| MONTGOMERY COUNTY, TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| NASSAU COUNTY, TOTAL | 15 | 13 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 1 | - | 1 | - | 2 | - | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | 1 | - | 2 | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NEW YORK COUNTY, TOTAL | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 1 | - | - | - | 3 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 1 | - | - | - | 2 | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| NIAGARA COUNTY, TOTAL | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ONEIDA COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 10 | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 9 | - | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| ONONDAGA COUNTY, TOTAL | 17 | 15 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 2 | - | 10 | - | 1 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 13 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | 10 | - | 1 | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ONTARIO COUNTY, TOTAL | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | 1 | 1 | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | 1 | 4 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ORANGE COUNTY, TOTAL | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 9 | - | - | 1 | - | - | 1 | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 8 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - |
| ORLEANS COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 4 | - | - | - | - | - | - | - |
| OSWEGO COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| OTSEGO COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| PUTNAM COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| RENSSELAER COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 13 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| RICHMOND COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| ROCKLAND COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SULLIVAN COUNTY: TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 7 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 7 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| TIOGA COUNTY: TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 2 | - | - | - | - | - | - |
| TOMPKINS COUNTY: TOTAL | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 2 | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | 2 | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| ULSTER COUNTY: TOTAL | 13 | 9 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 3 | - | 4 | 1 | 1 | 3 | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 6 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 4 | 1 | - | 3 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - |
| WARREN COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| WASHINGTON COUNTY: TOTAL | 13 | 7 | 6 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 5 | 6 | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 7 | 5 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 5 | 5 | 1 | - | - | - | - | - | - | - | - | - |
| 50-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| WAYNE COUNTY: TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WESTCHESTER COUNTY: TOTAL | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | 1 | 2 | - | - | - | - | - | 3 | - |
| 0-19 EMPLOYEES | 10 | 7 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | 1 | 2 | - | - | - | - | - | 3 | - |
| WYOMING COUNTY: TOTAL | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| YATES COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c., Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

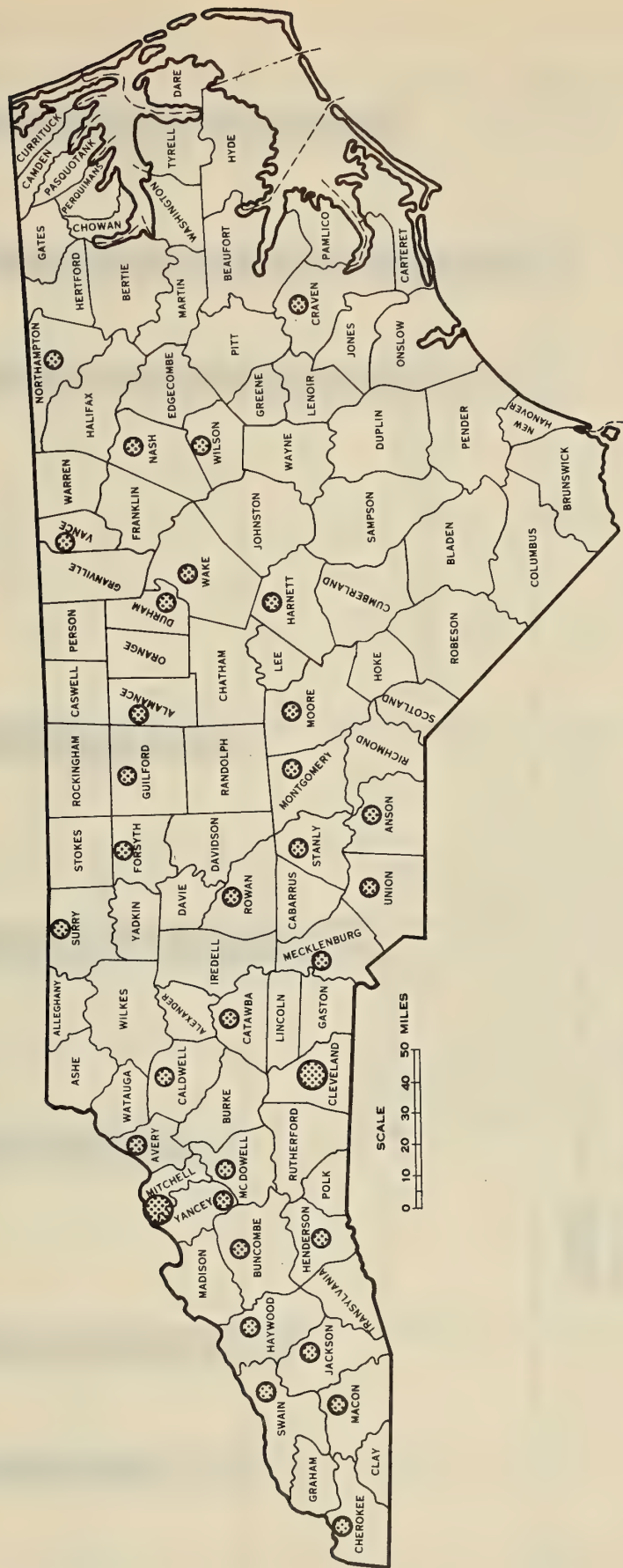
EMPLOYMENT IN MINING BY COUNTY: 1963

NORTH CAROLINA

RANK AMONG STATES

EMPLOYMENT - 34

VALUE OF SHIPMENT - 38



EMPLOYMENT

| |
|--------------|
| 8000 - 12000 |
| 4000 - 7999 |
| 2000 - 3999 |
| 1000 - 1999 |
| 500 - 999 |
| 200 - 499 |
| 25 - 199 |

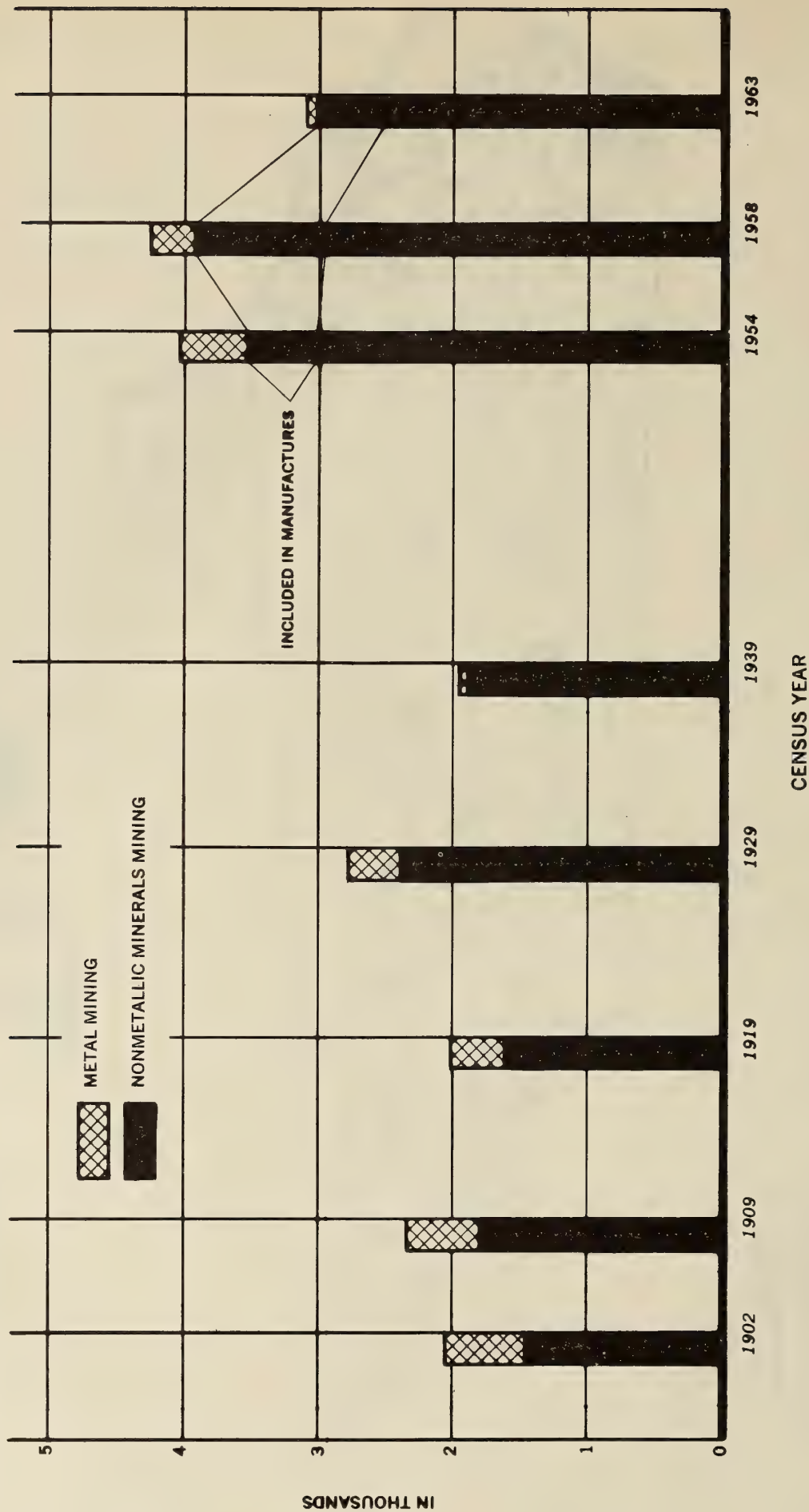
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NORTH CAROLINA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining ((\$1,000)) |
|--|--|--|----------------------------|--|---|-----------------------------------|--|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY:¹ | | | | | | | | |
| 1963. | 169 | 46 | 2 615 | 10 918 | 2 268 | 5 012 | 8 728 | 31 598 |
| 1958. | 231 | 53 | 3 701 | 12 274 | 3 334 | 6 812 | 10 292 | 27 516 |
| 1954. | 513 | 44 | 3 562 | 10 371 | 3 322 | 7 420 | 9 192 | ¹³ 30 678 |
| INCLUDING OPERATIONS IN MANUFACTURES:² | | | | | | | | |
| 1963. | 226 | 48 | 3 107 | 12 602 | 2 726 | 5 815 | 10 218 | 35 180 |
| 1958. | 267 | 57 | 4 265 | 13 929 | 3 844 | 7 764 | 11 711 | 31 757 |
| 1954. | 546 | 46 | 4 047 | 11 642 | 3 784 | 8 337 | 10 303 | ¹³ 33 141 |
| 1939 ³ | 111 | (NA) | 1 965 | 1 443 | 1 787 | 3 720 | 1 123 | 3 448 |
| 1929 ⁵ | 123 | (NA) | 2 788 | 2 807 | 2 585 | (NA) | 2 322 | 4 376 |
| 1919 ⁶ | 102 | (NA) | 2 018 | 1 689 | 1 890 | (NA) | 1 489 | 2 044 |
| 1909 ⁶ | 127 | (NA) | 2 352 | 996 | 2 243 | (NA) | 869 | 1 057 |
| 1902 ⁷ | 155 | (NA) | 2 062 | 737 | ⁸ 1 900 | (NA) | 620 | 745 |
| Kind of operation and year | Selected expenses | | | | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) | |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | Per production worker (1,000) |
| MINERAL INDUSTRIES ONLY:¹ | | | | | | | | |
| 1963. | ¹⁰ 11 607 | (¹⁰) | 1 675 | 4 058 | 44 406 | 4 532 | 876 | 386 |
| 1958. | 11 735 | 371 | 610 | 2 996 | ¹³ 39 328 | 3 900 | 723 | 217 |
| 1954. | 8 182 | ¹² 218 | 890 | 3 021 | ¹³ 39 566 | 3 421 | 504 | 152 |
| INCLUDING OPERATIONS IN MANUFACTURES:² | | | | | | | | |
| 1963. | ¹¹ 12 184 | 751 | ¹¹ 1 681 | ¹² 4 154 | 49 317 | ¹² 4 633 | ¹² 876 | 386 |
| 1958. | ¹¹ 12 554 | 543 | ¹¹ 1 611 | ¹² 3 067 | 44 557 | ¹² 3 975 | ¹² 737 | 192 |
| 1954. | ¹¹ 8 962 | ¹² 218 | ¹¹ 890 | ¹² 3 066 | ¹⁴ 2 811 | ¹² 3 466 | ¹² 513 | 136 |
| 1939 ³ | 1 082 | (NA) | 7 | (NA) | 4 537 | (NA) | 176 | 98 |
| 1929 ⁵ | 1 504 | (NA) | 1 | 151 | 5 981 | (NA) | 412 | 159 |
| 1919 ⁶ | 687 | - | 6 | (NA) | 2 737 | (NA) | ¹³ 322 | 170 |
| 1909 ⁶ | 264 | - | 38 | (NA) | 1 359 | (NA) | (NA) | (NA) |
| 1902 ⁷ | 173 | (NA) | 9 | (NA) | 927 | (NA) | (NA) | (NA) |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes figures for the Uranium-Radium-Vanadium Ores Industry.

²All figures except number of establishments exclude data for one fire clay mining operation in a manufacturing plant. Also excludes data for sand and gravel mining operations in manufacturing establishments.

³Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite at such operations was \$280 thousand; this value has been included in the value of shipments and value added in mining. The comparable values for sandstone and marble are not available.

⁴Represents number of mines and quarries.

⁵Excludes data for common clay and shale mining operations. In 1939, there were 23 such mines with products valued at \$184 thousand.

⁶Excludes data for sand and gravel mining operations. In 1929, there were 6 such establishments, with products valued at \$350 thousand. See also footnote 5. For 1919, also excludes data for 2 nonproducing establishments.

⁷Includes data for lime plants producing lime valued at \$2 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For sand and gravel and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For all other years, represents net production and excludes this duplication.

¹⁰Figures for the cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹For sand and gravel and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for sand and gravel and clay mining operations in manufacturing establishments.

¹³Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 3 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---------------------------------------|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 226 | 48 | 3 107 | 12 602 | 2 726 | 5 815 | 10 218 |
| | MINERAL INDUSTRIES | 169 | 46 | 2 615 | 10 918 | 2 268 | 5 012 | 8 728 |
| | INCLUDED IN MANUFACTURES | 57 | 2 | ¹ 492 | ¹ 684 | ¹ 458 | 803 | 1 490 |
| | DIMENSION STONE. | 10 | 3 | 402 | 1 360 | 362 | 642 | 1 134 |
| | CRUSHED AND BROKEN STONE: | | | | | | | |
| 1421 | MINERAL INDUSTRY | 52 | 25 | 1 135 | 4 750 | 962 | 1 981 | 3 530 |
| | CRUSHED AND BROKEN LIMESTONE: | | | | | | | |
| | MINERAL SUBINDUSTRY. | 8 | 4 | (D) | (D) | 156 | 334 | 560 |
| | SAND AND GRAVEL. | 76 | 6 | 535 | 2 115 | 485 | 1 237 | 1 904 |
| 144 | MINERAL INDUSTRY | 61 | 6 | 514 | 2 029 | 464 | 1 194 | 1 818 |
| | INCLUDED IN MANUFACTURES | 15 | - | ¹ 21 | ¹ 86 | ¹ 21 | 43 | 86 |
| | CLAY AND RELATED MINERALS. | 47 | 5 | 383 | 1 475 | 358 | 734 | 1 377 |
| | MINERAL INDUSTRIES | 13 | 5 | 275 | 1 109 | 250 | 525 | 1 011 |
| | INCLUDED IN MANUFACTURES | 34 | - | 108 | 366 | 108 | 209 | 366 |
| | CLAY AND RELATED MINERALS, N.E.C. . . | 39 | 1 | 166 | 580 | 161 | 310 | 558 |
| 1459 | MINERAL INDUSTRY | 5 | 1 | ¹ 58 | 214 | ¹ 53 | 101 | 192 |
| | INCLUDED IN MANUFACTURES | 34 | - | ¹ 108 | ¹ 566 | ¹ 108 | 209 | 366 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. . . . | 24 | 7 | 417 | 1 725 | 360 | 773 | 1 391 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 35 180 | ² 18 770 | ¹ 49 317 | ³ 4 633 | 4 265 | 31 757 | |
| | MINERAL INDUSTRIES | 31 598 | 17 340 | 44 406 | 4 532 | 3 701 | 27 516 | |
| | INCLUDED IN MANUFACTURES | 3 582 | ² 1 430 | ¹ 4 911 | ³ 101 | ¹ 564 | 4 241 | |
| | DIMENSION STONE. | 1 676 | 997 | 2 571 | 102 | 495 | 2 182 | |
| | CRUSHED AND BROKEN STONE: | | | | | | | |
| 1421 | MINERAL INDUSTRY | 16 481 | 8 407 | 23 729 | 1 159 | 1 120 | 10 394 | |
| | CRUSHED AND BROKEN LIMESTONE: | | | | | | | |
| | MINERAL SUBINDUSTRY. | 3 414 | 1 445 | 4 641 | 218 | 212 | 2 212 | |
| | SAND AND GRAVEL. | 6 697 | ² 2 457 | ¹ 8 557 | (NA) | (NA) | (NA) | |
| 144 | MINERAL INDUSTRY | 6 210 | 2 403 | 8 016 | 597 | 486 | 4 324 | |
| | INCLUDED IN MANUFACTURES | 487 | ² 54 | ¹ 541 | (NA) | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS. | 4 672 | 3 048 | 6 603 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRIES | 3 203 | 2 730 | 4 816 | 1 117 | 531 | 4 098 | |
| | INCLUDED IN MANUFACTURES | 1 469 | 318 | 1 787 | (NA) | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS, N.E.C. . . | 1 951 | ² 1 153 | ¹ 2 497 | (NA) | ¹ 184 | 3 440 | |
| 1459 | MINERAL INDUSTRY | 482 | 835 | 710 | 607 | (NA) | (NA) | |
| | INCLUDED IN MANUFACTURES | 1 469 | ² 318 | ¹ 1 787 | (NA) | (NA) | (NA) | |
| 149 | MISCELLANEOUS MINERALS, N.E.C. . . . | 3 603 | 1 979 | 5 077 | 505 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|--------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 17 340 | ³ 11 607 | (³) | 1 675 | 4 058 | 4 532 | 917 | 3 615 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . . | 8 407 | 5 574 | 182 | 626 | 2 025 | 1 159 | 3 | 1 156 | 14 224 | 23 467 | ⁴ 375 | ⁴ 730 |
| 1441 | SAND AND GRAVEL | 2 403 | 1 921 | — | 50 | 432 | 597 | 2 | 595 | 7 670 | ⁵ 8 950 | ⁶ 393 | (⁵) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 1 979 | ³ 1 547 | (³) | 73 | 359 | 505 | 39 | 466 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Excludes figures for minerals produced and used in the same establishment.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 6.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 14 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 165 | 155 | 32 | 2 | 30 | - | 121 | 2 | 115 | 4 | 2 | 1 |
| | NUMBER OF EMPLOYEES..... | 2 471 | 2 421 | (D) | (D) | (D) | - | (D) | (D) | 2 108 | 66 | (D) | 5 |
| | VALUE ADDED IN MINING.....\$1,000.. | 31 598 | 31 184 | (D) | (D) | (D) | - | (D) | (D) | 28 672 | 448 | (D) | 41 |
| 142 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 158 | 151 | 30 | - | 30 | - | 119 | 1 | 114 | 4 | 2 | (D) |
| | NUMBER OF EMPLOYEES..... | (D) | 2 353 | (D) | - | (D) | - | (D) | (D) | (D) | 66 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | 30 876 | (D) | - | (D) | - | (D) | (D) | (D) | 448 | (D) | (D) |
| 144 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 52 | 52 | 2 | - | 2 | - | 49 | - | 49 | - | 1 | |
| | NUMBER OF EMPLOYEES..... | 1 047 | 1 047 | (D) | - | (D) | - | 1 033 | - | 1 033 | - | (D) | |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 481 | 16 481 | (D) | - | (D) | - | 16 344 | - | 16 344 | - | (D) | |
| 145 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 61 | 60 | 10 | - | 10 | - | 49 | - | 46 | 3 | 1 | (D) |
| | NUMBER OF EMPLOYEES..... | 516 | (D) | (D) | - | (D) | - | 478 | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 210 | (D) | (D) | - | (D) | - | 5 954 | - | (D) | (D) | (D) | (D) |
| 149 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 13 | 10 | 4 | - | 4 | - | 6 | - | 6 | - | - | (D) |
| | NUMBER OF EMPLOYEES..... | 275 | (D) | (D) | - | (D) | - | 228 | - | 228 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 193 | (D) | (D) | - | (D) | - | 2 847 | - | 2 847 | - | - | (D) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 24 | 22 | 8 | - | 8 | - | 14 | 1 | 12 | 1 | - | (D) |
| | NUMBER OF EMPLOYEES..... | 400 | (D) | 33 | - | 33 | - | (D) | (D) | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 603 | (D) | 226 | - | 226 | - | (D) | (D) | (D) | (D) | - | (D) |

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 226 | 48 | 3 107 | 12 602 | 2 726 | 5 815 | 10 218 | 35 180 | 18 770 | 49 317 | 4 633 | 4 265 | 31 757 |
| | MINERAL INDUSTRIES | 169 | 46 | 2 615 | 10 918 | 2 268 | 5 012 | 8 728 | 31 598 | 17 340 | 44 406 | 4 532 | 3 701 | 27 516 |
| | INCLUDED IN MANUFACTURES ² | 57 | 2 | 492 | 1 684 | 458 | 803 | 1 490 | 3 582 | 1 430 | 4 911 | 101 | 564 | 4 241 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BUNCOMBE COUNTY, TOTAL | 9 | 1 | 89 | 373 | 73 | 177 | 299 | 1 057 | 449 | 1 313 | 193 | (NA) | (NA) |
| | CLEVELAND COUNTY, TOTAL. | 8 | 3 | 210 | 980 | 169 | 374 | 691 | 2 994 | 1 886 | 4 614 | 266 | (NA) | (NA) |
| | HENDERSON COUNTY, TOTAL. | 4 | 2 | 59 | 211 | 54 | 112 | 200 | 499 | 230 | 667 | 62 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 2 | 59 | 211 | 54 | 112 | 200 | 499 | 230 | 667 | 62 | 41 | 312 |
| | MACON COUNTY, TOTAL. | 4 | 1 | 38 | 133 | 28 | 56 | 80 | 336 | 254 | 505 | 85 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 1 | 38 | 133 | 28 | 56 | 80 | 336 | 254 | 505 | 85 | (NA) | (NA) |
| | MITCHELL COUNTY, TOTAL | 12 | 4 | 224 | 889 | 195 | 421 | 805 | 2 978 | 2 016 | 4 474 | 520 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 145 | CLAY AND RELATED MINERALS. | 5 | 4 | 192 | 806 | 173 | 374 | 731 | 2 721 | 1 891 | 4 106 | 506 | 269 | 2 145 |
| | MOORE COUNTY, TOTAL. | 8 | 2 | 108 | 456 | 85 | 167 | 323 | 777 | 439 | 1 166 | 50 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | 2 | 108 | 456 | 85 | 167 | 323 | 777 | 439 | 1 166 | 50 | 141 | 1 085 |
| | SURRY COUNTY, TOTAL. | 4 | - | 31 | 117 | 23 | 54 | 88 | 641 | 268 | 829 | 80 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | - | 31 | 117 | 23 | 54 | 88 | 641 | 268 | 829 | 80 | (NA) | (NA) |
| | YANCEY COUNTY, TOTAL | 9 | 1 | 89 | 348 | 80 | 177 | 303 | 806 | 511 | 1 167 | 150 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | 1 | 89 | 348 | 80 | 177 | 303 | 806 | 511 | 1 167 | 150 | 86 | 498 |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A, footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 110C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c., in manufactures |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ³ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| NORTH CAROLINA, TOTAL | 226 | 169 | 57 | 1 | 2 | - | 1 | - | 1 | 1 | - | - | - | - | - | 2 | - | - | 5 | 5 | 52 | 3 | 61 | 15 | 13 | 34 | 3 | 3 | 24 | - |
| NO EMPLOYEES | 21 | 18 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 2 | - | 12 | 2 | - | 1 | 1 | - | 1 | - |
| 1-4 EMPLOYEES | 93 | 50 | 43 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 4 | 2 | 25 | 12 | 3 | 26 | - | 1 | 11 | - |
| 5-9 EMPLOYEES | 29 | 25 | 4 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 7 | - | 12 | 1 | 2 | 3 | - | 1 | 1 | - |
| 10-19 EMPLOYEES | 35 | 30 | 5 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 14 | 1 | 6 | - | 3 | 4 | 1 | 1 | 4 | - | - |
| 20-49 EMPLOYEES | 36 | 35 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 23 | - | 3 | - | 4 | - | - | - | 4 | - |
| 50-99 EMPLOYEES | 11 | 11 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | 1 | - | 1 | - | 3 | - | - |
| 250-499 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| ALABAMA COUNTY, TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | 1 | - | - | 1 | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ANSON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| ASHE COUNTY, TOTAL | 2 | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| AVERY COUNTY, TOTAL | 5 | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 4 | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - |
| BEAUFORT COUNTY, TOTAL | 2 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - |
| BUNCOMBE COUNTY, TOTAL | 10 | 9 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | 1 | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | 1 | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| BURKE COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - |
| CABARRUS COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 4 | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 4 | 4 | - | - | - | - | - | - | - |
| CALDWELL COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| CASWELL COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| CATAWBA COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - |
| CHATHAM COUNTY, TOTAL | 4 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - |
| CHEROKEE COUNTY, TOTAL | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - | 1 | 2 | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - | 1 | 1 | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - |
| CLAY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| CLEVELAND COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 2 | - | - | - | 1 | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 2 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | 1 | - |
| CRAVEN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CUMBERLAND COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DAVIDSON COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| DUPLIN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| DURHAM COUNTY, TOTAL | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - | - | - | - | - |
| EDGECOMBE COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - |
| FORSYTH COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| GASTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| GUILFORD COUNTY, TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | 1 | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| STOKES COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| SURRY COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| SWAIN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| TRANSYLVANIA COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| UNION COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - |
| VANCE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WAKE COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| WATAUGA COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| WAYNE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| WILSON COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| YADKIN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| YANCEY COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | 5 | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | 4 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - |
| UNDISTRIBUTED, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c., Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

NORTH DAKOTA

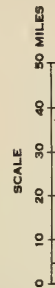
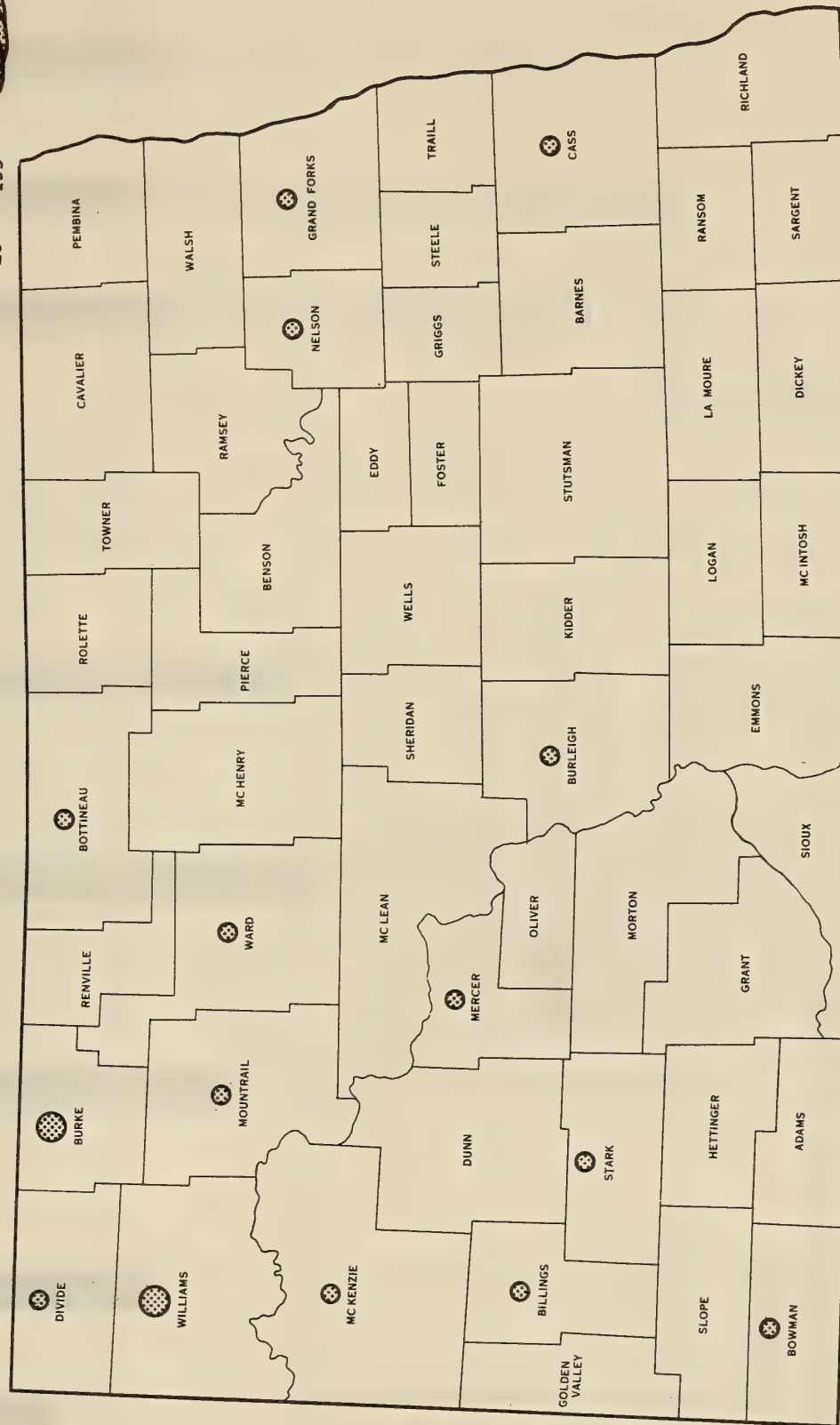
RANK AMONG STATES

EMPLOYMENT - 40

VALUE OF SHIPMENT - 29

EMPLOYMENT

8000 - 12000
4000 - 7999
2000 - 3999
1000 - 1999
500 - 999
200 - 499
25 - 199



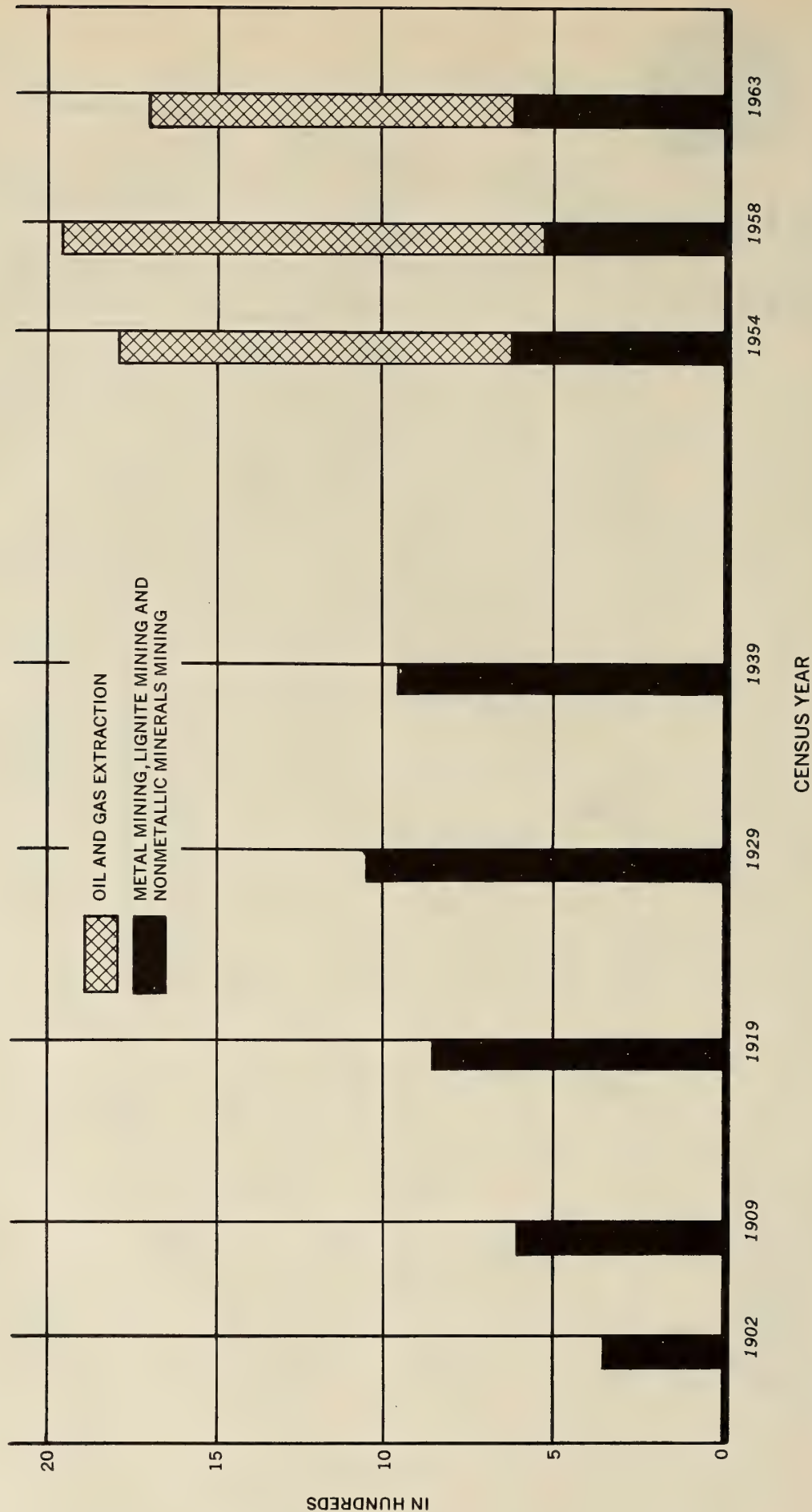
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

NORTH DAKOTA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 187 | 23 | 1 693 | 9 755 | 1 363 | 2 847 | 7 649 | 73 711 | |
| 1958 | 167 | 25 | 1 955 | 10 704 | 1 552 | 3 456 | 8 023 | 40 287 | |
| 1954 | 146 | 26 | 1 798 | 8 619 | 1 399 | 2 956 | 6 319 | 17 151 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 191 | 23 | 1 711 | 9 829 | 1 381 | 2 884 | 7 723 | 74 034 | |
| 1958 | 172 | 25 | 1 967 | 10 737 | 1 564 | 3 477 | 8 056 | 40 410 | |
| 1954 ² | 147 | 26 | 1 798 | 8 619 | 1 399 | 2 956 | 6 319 | 17 151 | |
| 1939 ³ | 4 108 | (NA) | 960 | 1 042 | 874 | 1 724 | 871 | 2 027 | |
| 1929 ⁵ | 115 | (NA) | 1 061 | 1 457 | 994 | (NA) | 1 289 | 2 732 | |
| 1919 | 79 | (NA) | 864 | 1 189 | 774 | (NA) | 1 029 | 1 574 | |
| 1909 | 53 | (NA) | 611 | 427 | 562 | (NA) | 364 | 456 | |
| 1902 ⁶ | 4 48 | (NA) | 350 | 241 | 298 | (NA) | 197 | 243 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 9 16 317 | (9) | 10 737 | 10 214 | 93 144 | 17 835 | 1 917 | 1 406 | 248 |
| 1958 | 9 20 211 | (9) | 21 411 | 9 579 | 65 573 | 25 915 | 805 | 519 | (NA) |
| 1954 | 9 9 542 | (9) | 20 305 | 14 008 | 128 694 | 22 312 | 829 | 593 | 107 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 9 10 16 381 | (9) | 10 10 737 | 11 10 214 | 93 531 | 11 17 835 | 11 1 917 | 1 406 | 248 |
| 1958 | 9 10 20 247 | (9) | 10 21 411 | 11 9 579 | 65 732 | 11 25 915 | 11 805 | 515 | (NA) |
| 1954 ² | 9 10 9 542 | (9) | 10 20 305 | 11 14 008 | 128 694 | 11 22 312 | 11 829 | 593 | 11 107 |
| 1939 ³ | 471 | (NA) | 5 | (NA) | 2 503 | (NA) | 180 | 276 | 15 |
| 1929 ⁵ | 466 | (NA) | 9 | 80 | 3 207 | (NA) | 12 283 | 285 | 10 |
| 1919 | 322 | - | 31 | (NA) | 1 927 | (NA) | 127 | 164 | 2 |
| 1909 | 108 | - | 1 | (NA) | 565 | (NA) | (NA) | (NA) | 2 |
| 1902 ⁶ | 89 | (NA) | 3 | (NA) | 335 | (NA) | (NA) | (NA) | 1 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. Revised. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.
²Except for number of establishments, excludes data for one clay mining operation in a manufacturing establishment. Excludes data for any sand and gravel mining operations in manufacturing establishments.

³Except for number of establishments, excludes data for one mining services establishment and one nonproducing establishment.

⁴Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for one sand and gravel establishment, and for common clay and shale and oil and gas extraction operations, if any.

⁶Includes data for one cement plant.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For sand and gravel and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁹The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electricity. However for 1954, excludes the cost of natural gas processed at natural gas liquids plants but includes the value prior to processing of natural gas liquids contained in such gas.

¹⁰For sand and gravel and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for sand and gravel and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only one percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|---------------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 191 | 23 | 1 711 | 9 829 | 1 381 | 2 884 | 7 723 |
| | MINERAL INDUSTRIES | 187 | 23 | 1 693 | 9 755 | 1 363 | 2 847 | 7 649 |
| | INCLUDED IN MANUFACTURES | 4 | - | 18 | 74 | 18 | 37 | 74 |
| 13 | OIL AND GAS EXTRACTION | 96 | 14 | 1 090 | 6 738 | 843 | 1 791 | 5 113 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 62 | 3 | 428 | 2 903 | 281 | 587 | 1 815 |
| 138 | OIL AND GAS FIELD SERVICES: | | | | | | | |
| 1381 | DRILLING OIL AND GAS WELLS | 10 | 4 | 207 | 1 136 | 186 | 458 | 1 052 |
| 10,12 & 14 | METAL, LIGNITE MINING, AND NONMETALLIC MINERALS MINING: | | | | | | | |
| | MINERAL INDUSTRIES | 95 | 9 | 621 | 3 091 | 538 | 1 093 | 2 610 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY | 40 | 4 | 237 | 1 249 | 207 | 454 | 1 099 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS | 74 034 | 237 332 | 193 531 | (NA) | 1 967 | 40 410 | |
| | MINERAL INDUSTRIES | 73 711 | 37 268 | 93 144 | 17 835 | 1 955 | 40 287 | |
| | INCLUDED IN MANUFACTURES | 323 | 264 | 1387 | (NA) | 112 | 123 | |
| 13 | OIL AND GAS EXTRACTION | 67 163 | 28 872 | 83 549 | 12 486 | 1 436 | 33 965 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. . . | 54 999 | 20 301 | 64 798 | 10 502 | 558 | 22 352 | |
| 138 | OIL AND GAS FIELD SERVICES: | | | | | | | |
| 1381 | DRILLING OIL AND GAS WELLS | 3 465 | 1 295 | 3 837 | 923 | 528 | 6 585 | |
| 10,12 & 14 | METAL, LIGNITE MINING, AND NONMETALLIC MINERALS MINING: | | | | | | | |
| | MINERAL INDUSTRIES | 6 871 | 8 460 | 9 982 | 5 349 | 510 | 6 322 | |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY | 2 576 | 1 587 | 3 768 | 395 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|-------------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. . | 37 268 | ³ 16 317 | (³) | 10 737 | 10 214 | 17 835 | 4 758 | 13 077 | (X) | (X) | (X) | (X) |
| 13 | OIL AND GAS EXTRACTION. . . . | 28 872 | ³ 13 451 | (³) | 10 038 | 5 383 | 12 486 | 4 665 | 7 821 | (X) | (X) | (X) | (X) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 20 301 | 6 332 | - | 9 363 | 4 606 | 10 502 | 4 186 | 6 316 | (X) | 64 505 | (X) | 264 |
| 10, 12 & 14 | METAL MINING, LIGNITE MINING, AND NONMETALLIC MINERALS MINING. | 8 396 | ³ 2 866 | (³) | 699 | 4 831 | 5 349 | 93 | 5 256 | (X) | (X) | (X) | (X) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 14 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 156 | 143 | 76 | 4 | 20 | 52 | 61 | 1 | 60 | - | 6 | 13 |
| | NUMBER OF EMPLOYEES..... | 1 112 | 1 089 | 439 | (D) | (D) | (D) | 547 | (D) | (D) | - | 103 | 23 |
| | VALUE ADDED IN MINING.....\$1,000.. | 65 773 | 65 954 | 55 624 | (D) | (D) | (D) | 7 017 | (D) | (D) | - | 3 313 | (²) |
| | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 42 | 41 | 3 | - | 3 | - | 37 | - | 37 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 243 | (D) | (D) | - | (D) | - | 231 | - | 231 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 2 594 | (D) | (D) | - | (D) | - | 2 532 | - | 2 532 | - | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS. | 191 | 23 | 1 711 | 9 829 | 1 381 | 2 884 | 7 723 | 74 034 | 37 332 | 93 531 | (NA) | 1 967 | 40 410 |
| | MINERAL INDUSTRIES. | 187 | 23 | 1 693 | 9 755 | 1 363 | 2 847 | 7 649 | 73 711 | 37 268 | 93 144 | 17 835 | 1 955 | 40 287 |
| | INCLUDED IN MANUFACTURES ² | 4 | - | 18 | 74 | 18 | 37 | 74 | 323 | 64 | 387 | (NA) | 12 | 123 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BILLINGS COUNTY, TOTAL | 14 | - | 51 | 292 | 46 | 95 | 257 | 2 311 | 894 | 2 562 | 643 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 62 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 1 | 7 | 1 | 2 | 7 | 1 806 | 563 | 1 801 | 568 | (NA) | (NA) |
| | BOTTINEAU COUNTY, TOTAL | 36 | 1 | 106 | 626 | 94 | 225 | 552 | 5 379 | 1 748 | 6 419 | 708 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 36 | 1 | 106 | 626 | 94 | 225 | 552 | 5 379 | 1 748 | 6 419 | 708 | 172 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 25 | - | 47 | 294 | 41 | 85 | 239 | 4 407 | 1 322 | 5 272 | 457 | 11 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | 1 | 59 | 332 | 53 | 140 | 313 | 972 | 426 | 1 147 | 251 | 164 | (NA) |
| | BOWMAN COUNTY, TOTAL | 16 | 1 | 67 | 386 | 58 | 137 | 317 | 1 732 | 3 602 | 3 463 | 1 871 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 10 | 1 | 30 | 220 | 28 | 73 | 184 | 2 174 | 2 352 | 2 966 | 1 560 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 3 | - | 1 | 9 | 1 | 2 | 6 | 1 842 | 2 040 | 2 348 | 1 534 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 7 | 1 | 29 | 211 | 27 | 71 | 178 | 332 | 312 | 618 | 26 | (NA) | (NA) |
| | BURKE COUNTY, TOTAL | 55 | 4 | 341 | 1 794 | 255 | 517 | 1 391 | 16 930 | 7 951 | 20 974 | 3 907 | 254 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | - | 58 | 351 | 37 | 85 | 226 | 12 672 | 5 260 | 15 477 | 2 455 | 58 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 20 | 1 | 148 | 650 | 109 | 207 | 517 | 1 870 | 676 | 2 147 | 399 | (NA) | (NA) |
| | DIVIDE COUNTY, TOTAL | 14 | - | 37 | 251 | 35 | 86 | 231 | 548 | 213 | 704 | 57 | 72 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 14 | - | 37 | 251 | 35 | 86 | 231 | 548 | 213 | 704 | 57 | (NA) | (NA) |
| | MCKENZIE COUNTY, TOTAL | 25 | 2 | 176 | 1 220 | 143 | 312 | 946 | 18 483 | 5 732 | 21 186 | 3 029 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 24 | 2 | 176 | 1 220 | 143 | 312 | 946 | 18 482 | 5 732 | 21 185 | 3 029 | 383 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 9 | 1 | 60 | 410 | 35 | 73 | 218 | 17 113 | 5 062 | 19 217 | 2 958 | 53 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 15 | 1 | 116 | 810 | 108 | 239 | 728 | 1 369 | 670 | 1 968 | 71 | 330 | (NA) |
| | MERCER COUNTY, TOTAL | 7 | 2 | 129 | 573 | 114 | 174 | 440 | 1 883 | 4 192 | 2 251 | 3 824 | 103 | 1 550 |
| | MOUNTRAIL COUNTY, TOTAL | 4 | 1 | 30 | 204 | 19 | 32 | 124 | 326 | 81 | 388 | 19 | 111 | (NA) |
| | RENVILLE COUNTY, TOTAL | 25 | - | 16 | 126 | 14 | 30 | 106 | 2 341 | 844 | 2 725 | 460 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 7 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | - | 13 | 111 | 11 | 23 | 94 | 2 275 | 801 | 2 636 | 440 | (NA) | (NA) |
| | STARK COUNTY, TOTAL | 10 | 1 | 91 | 402 | 64 | 122 | 241 | 384 | 307 | 520 | 171 | 25 | (NA) |
| | WARD COUNTY, TOTAL | 10 | 1 | 72 | 446 | 57 | 136 | 360 | 1 179 | 471 | 1 473 | 177 | 87 | (NA) |
| | WILLIAMS COUNTY, TOTAL | 42 | 6 | 377 | 2 443 | 289 | 656 | 1 811 | 20 008 | 10 602 | 28 126 | 2 484 | 449 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 37 | 6 | 377 | 2 443 | 289 | 656 | 1 811 | 19 986 | 10 589 | 28 093 | 2 482 | 445 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | 1 | 139 | 926 | 86 | 179 | 531 | 14 740 | 4 025 | 16 941 | 1 824 | 179 | (NA) |
| | UNDISTRIBUTED, TOTAL | 27 | 1 | 97 | 664 | 80 | 157 | 494 | 808 | 1 270 | 1 873 | 205 | 190 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 27 | 1 | 97 | 664 | 80 | 157 | 494 | 808 | 1 270 | 1 873 | 205 | 190 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 18 | 166 | 7 | 14 | 57 | (NA) | 881 | 234 | 71 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 22 | 1 | 79 | 498 | 73 | 143 | 437 | 1 384 | 389 | 1 639 | 134 | 138 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 110 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 120 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferrous ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| NORTH DAKOTA: TOTAL | 191 | 187 | 4 | - | - | - | - | - | - | - | 6 | - | - | 43 | - | 62 | 3 | 31 | - | - | 1 | 1 | 40 | 3 | - | - | - | - | - | 1 |
| NO EMPLOYEES | 48 | 48 | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 27 | - | 4 | - | - | - | 6 | - | - | - | - | - | - | - | 1 |
| 1-4 EMPLOYEES | 85 | 83 | 2 | - | - | - | - | - | - | - | 4 | - | - | 22 | - | 23 | - | 12 | - | - | 1 | 21 | 2 | - | - | - | - | - | - | - |
| 5-9 EMPLOYEES | 19 | 17 | 2 | - | - | - | - | - | - | - | 2 | - | - | 4 | - | 5 | - | - | - | - | - | 6 | 1 | - | - | - | - | - | - | - |
| 10-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | 1 | 6 | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | 2 | 6 | - | - | - | 4 | - | - | - | - | - | - | - | - |
| 50-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ADAMS COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| BILLINGS COUNTY: TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 5 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | 2 | - | - | - | - | 5 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| BOTTINEAU COUNTY: TOTAL | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 35 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| BOWMAN COUNTY: TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | 3 | - | - | 3 | - | 3 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 15 | - | - | - | - | - | - | - | - | 3 | - | - | 3 | - | 3 | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| BURKE COUNTY: TOTAL | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 30 | 2 | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 51 | 51 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 30 | 1 | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| BURLEIGH COUNTY: TOTAL | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 2 | - | - | - | 1 | 1 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 2 | - | - | - | 1 | 1 | - | - | - | - | - | 1 | - |
| CASS COUNTY: TOTAL | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DICKEY COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DIVIDE COUNTY: TOTAL | 15 | 14 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 7 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 14 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 7 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| DUNN COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| EDDY COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| FOSTER COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| GOLDEN VALLEY COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| GRAND FORKS COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| GRANT COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HETTINGER COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LOGAN COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MCHENRY COUNTY: TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| MCINTOSH COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MCKENZIE COUNTY: TOTAL | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 9 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 8 | - | 14 | - | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-------------|-----|-----|-------------|-----|---------------|-------------|---------------|-----|-------|-----|--------|-------------|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| OLIVER COUNTY: TOTAL 0-19 EMPLOYEES | 2 2 | 2 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PIERCE COUNTY: TOTAL 0-19 EMPLOYEES | 1 1 | 1 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| RAMSEY COUNTY: TOTAL 0-19 EMPLOYEES | 1 1 | 1 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RANSOM COUNTY: TOTAL 0-19 EMPLOYEES | 1 1 | 1 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| RENVILLE COUNTY: TOTAL 0-19 EMPLOYEES | 25 25 | 25 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 7 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| ROLETTE COUNTY: TOTAL 0-19 EMPLOYEES | 1 1 | 1 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| SARGENT COUNTY: TOTAL 0-19 EMPLOYEES | 2 2 | 2 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| SIOUX COUNTY: TOTAL 0-19 EMPLOYEES | 1 1 | 1 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SLOPE COUNTY: TOTAL 0-19 EMPLOYEES | 3 3 | 3 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| STARK COUNTY: TOTAL 0-19 EMPLOYEES 20-99 EMPLOYEES | 10 9 1 | 10 9 1 | - | - | - | - | - | - | - | - | 1 1 1 | - | - | 3 3 - | - | 4 4 - | - | - | - | - | - | - | 2 1 1 | - | - | - | - | - | - | - |
| STUTSMAN COUNTY: TOTAL 0-19 EMPLOYEES | 2 2 | 2 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 2 | - | - | - | - | - | - | - |
| TOWNER COUNTY: TOTAL 0-19 EMPLOYEES | 1 1 | 1 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 1 | - | - | - | - | - | - | - | - |
| TRAILL COUNTY: TOTAL 0-19 EMPLOYEES | 3 3 | 3 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 3 | - | - | - | - | - | - | - | - |
| WALSH COUNTY: TOTAL 0-19 EMPLOYEES | 3 3 | 3 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 3 | - | - | - | - | - | - | - | - |
| WARD COUNTY: TOTAL 0-19 EMPLOYEES 20-99 EMPLOYEES | 10 9 1 | 10 9 1 | - | - | - | - | - | - | - | - | - | - | - | 3 2 1 | - | 2 2 - | - | 4 4 - | - | - | - | - | 1 1 - | - | - | - | - | - | - | - |
| WILLIAMS COUNTY: TOTAL 0-19 EMPLOYEES 20-99 EMPLOYEES 100-249 EMPLOYEES | 42 36 5 1 | 42 36 5 1 | - | - | - | - | - | - | - | - | - | - | - | 3 3 - | - | 11 10 1 | 1 - - | 25 21 4 | - | - | - | - | 2 2 - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL 0-19 EMPLOYEES 20-99 EMPLOYEES | 27 26 1 | 27 26 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 5 - | - | 22 21 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

OHIO

EMPLOYMENT - 10

EMPLOYMENT

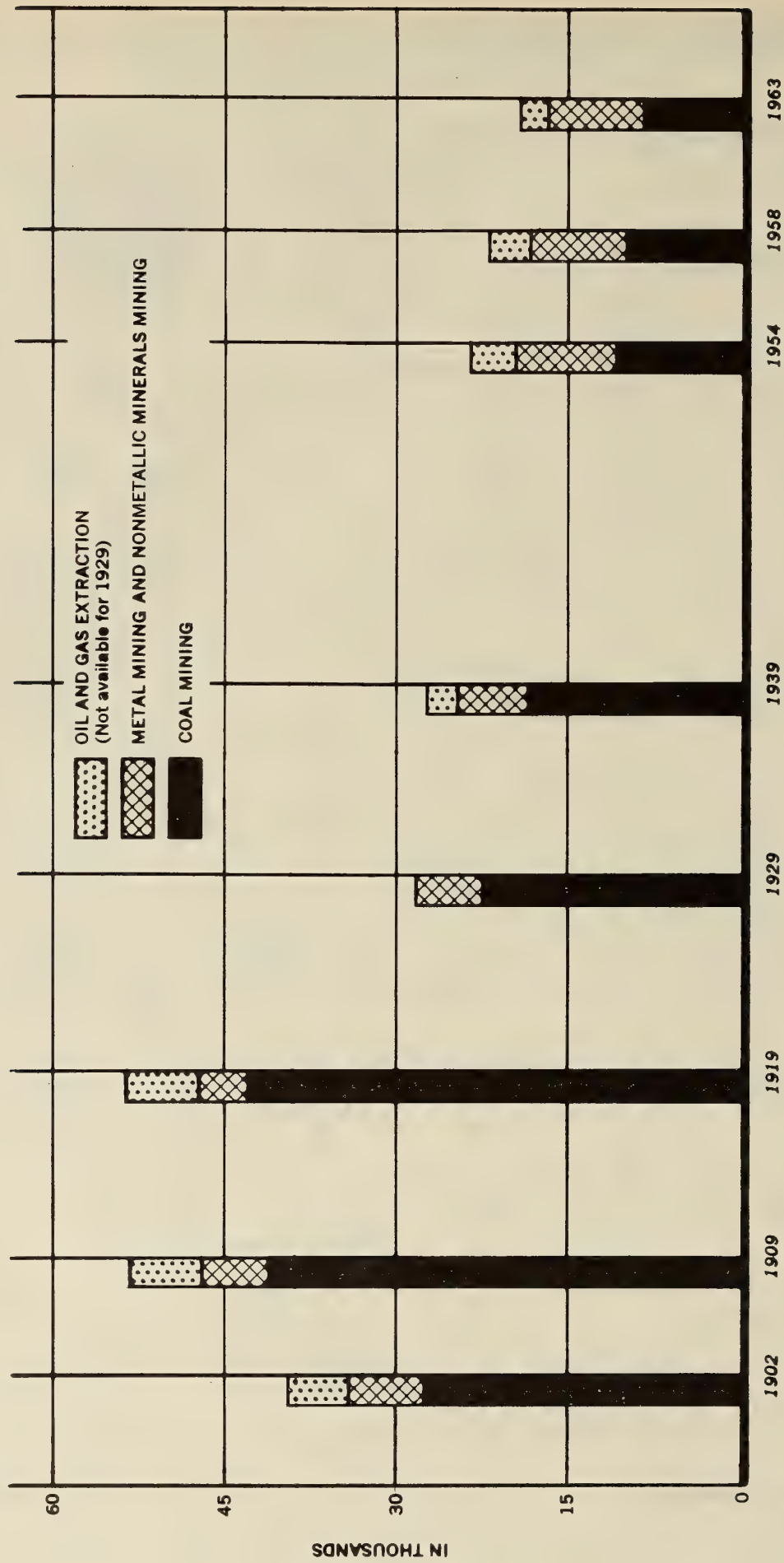


BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

OHIO



CENSUS YEAR

DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|--|---|-------------------------------|------------------------------------|--|
| | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | |
| | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 1 541 | 180 | 17 625 | 104 187 | 14 194 | 28 717 | 76 487 | 223 883 | |
| 1958. | 1 436 | 187 | 20 790 | 103 307 | 15 907 | 29 764 | 73 356 | 191 336 | |
| 1954. | 1 654 | 194 | 21 654 | 91 076 | 17 508 | 33 242 | 67 573 | 166 825 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | 1 704 | 198 | 19 250 | 112 315 | 15 756 | 31 810 | 84 179 | 247 090 | |
| 1958. | 1 599 | 210 | 22 268 | 114 990 | 17 359 | 32 686 | 79 924 | 213 647 | |
| 1954 ¹ | 1 793 | 220 | 23 742 | 98 839 | 19 510 | 37 247 | 74 881 | 184 997 | |
| 1939 ² | ³ 1 407 | (NA) | 27 343 | 33 852 | 24 948 | 41 312 | 28 749 | 51 914 | |
| 1919 ⁴ | 2 289 | (NA) | 53 607 | 66 376 | 49 470 | (NA) | 58 320 | 106 964 | |
| 1909 ⁴ | 1 952 | (NA) | 53 199 | 29 546 | 50 571 | (NA) | 26 771 | 47 112 | |
| 1902 ⁵ | ³ 11 519 | (NA) | 39 487 | 25 617 | ⁶ 37 002 | (NA) | 23 118 | 43 833 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | 1 049 | 175 | 16 672 | 99 833 | 13 736 | 27 831 | 75 336 | 215 399 | |
| 1958. | 1 012 | 202 | 18 342 | 95 420 | 15 064 | 28 537 | 71 835 | 190 059 | |
| 1954. | 1 134 | 201 | 19 539 | 83 195 | 17 077 | 33 223 | 68 565 | 167 538 | |
| 1939 ² | ³ 1 122 | (NA) | 24 587 | 30 025 | 22 948 | 37 825 | 26 397 | 43 257 | |
| 1929 ⁷ | 801 | (NA) | 28 253 | 34 542 | 27 001 | (NA) | 31 351 | 49 521 | |
| 1919 ⁴ | 951 | (NA) | 47 123 | 57 928 | ⁴ 44 347 | (NA) | 51 977 | 74 042 | |
| 1909 ⁴ | 750 | (NA) | 46 843 | 25 408 | 45 222 | (NA) | 23 625 | 29 993 | |
| 1902 ⁵ | ³ 1 100 | (NA) | 34 080 | 21 409 | ⁶ 32 286 | (NA) | 19 760 | 30 010 | |
| Kind of operation and year | Selected expenses | | | | | Value of shipments and receipts ⁸ (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Capital expenditures (\$1,000) | | Total | Per production worker | |
| | | | | | | | (million) | (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 70 085 | 22 662 | 16 943 | 31 066 | 318 810 | 45 829 | 4 202 | 296 | 1 558 |
| 1958. | 62 423 | 29 599 | 12 844 | 19 213 | 286 321 | 29 094 | 2 907 | 183 | (NA) |
| 1954. | 44 091 | ⁹ 10 735 | 11 249 | 19 722 | 228 046 | 24 576 | 2 677 | 153 | 1 043 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963. | ¹⁰ 76 537 | 22 662 | ¹⁰ 16 943 | ¹¹ 31 109 | 348 402 | ¹¹ 45 939 | ¹¹ 4 202 | ¹¹ 296 | ¹¹ 1 558 |
| 1958. | ¹⁰ 67 452 | 29 599 | ¹⁰ 12 844 | ¹¹ 19 228 | 313 654 | ¹¹ 29 116 | ¹¹ 2 927 | 169 | (NA) |
| 1954 ¹ | ¹⁰ 48 003 | ⁹ 10 735 | ¹⁰ 11 249 | ¹¹ 19 844 | 250 045 | ¹¹ 24 783 | ¹¹ 2 790 | 143 | ¹¹ 1 052 |
| 1939 ² | 10 843 | (NA) | 1 473 | (NA) | 64 230 | (NA) | 2 715 | 109 | 367 |
| 1919 ⁴ | 20 517 | ¹² 3 093 | 3 945 | (NA) | 134 519 | (NA) | ¹³ 8 319 | 168 | 338 |
| 1909 ⁴ | 8 273 | ¹² 5 376 | 3 006 | (NA) | 63 767 | (NA) | (NA) | (NA) | 295 |
| 1902 ⁵ | 9 923 | (NA) | 2 716 | (NA) | 56 472 | (NA) | (NA) | (NA) | 211 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963. | ¹⁰ 68 374 | 22 662 | ¹⁰ 16 729 | ¹¹ 27 940 | 306 786 | ¹¹ 34 318 | ¹¹ 3 745 | ¹¹ 273 | ¹¹ 1 340 |
| 1958. | ¹⁴ 88 706 | (¹⁴) | ¹⁰ 5 876 | ¹¹ 16 095 | 280 664 | ¹¹ 20 072 | ¹¹ 2 910 | 193 | (NA) |
| 1954 ¹ | ¹⁴ 53 848 | (¹⁴) | ¹⁰ 5 205 | ¹¹ 16 303 | 227 004 | ¹¹ 15 890 | ¹¹ 2 474 | 145 | ¹¹ 936 |
| 1939 ² | 9 997 | (NA) | 550 | (NA) | 53 804 | (NA) | 2 158 | 94 | 300 |
| 1929 ⁷ | 10 406 | (NA) | 169 | 2 202 | 60 096 | (NA) | 3 010 | 111 | 228 |
| 1919 ⁴ | 14 460 | - | 533 | (NA) | 89 035 | (NA) | ¹³ 6 586 | 149 | 184 |
| 1909 ⁴ | 4 126 | - | 127 | (NA) | 34 146 | (NA) | (NA) | (NA) | 128 |
| 1902 ⁵ | 3 279 | (NA) | 70 | (NA) | 33 359 | (NA) | (NA) | (NA) | 71 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing sandstone at such operations was \$159 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for limestone is not available.

³Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for sand, gravel, common clay, and shale operations, and stone quarries operated as parts of cement and lime plants. In 1939, the value of products of common clay and shale operations was \$1,368 thousand. In 1929, the value of products was \$11,339 thousand. For "Excluding oil and gas extraction operations," includes data for nonproducing oil and gas extraction establishments; there were 5 such operations in 1919 and 7 in 1909.

⁵Excludes data for sand, gravel, common clay, and shale operations; and stone quarries at 7 cement plants. Includes data for lime plants producing lime valued at \$1,082 thousand, and includes data for lime plants and nonproducing establishments in the Crude Petroleum and Natural Gas Industry.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes data for common clay and shale operations and one nonproducing operation. The value of products of such operations in 1939 was \$1,368 thousand.

⁸For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁹Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹⁰For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹²Represents natural gas purchased as a material and for resale.

¹³Excludes purchased electric energy. For "All operations" in 1939, and also for "Excluding oil and gas extraction" in 1929, the quantity of purchased electric energy amounted to only 4 percent of the total kwh equivalent of energy used.

¹⁴Costs of minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electric energy. See also footnote 10.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|---------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 1 704 | 198 | 19 250 | 112 315 | 15 756 | 31 810 | 84 179 |
| | MINERAL INDUSTRIES | 1 541 | 180 | 17 625 | 104 187 | 14 194 | 28 717 | 76 487 |
| | INCLUDED IN MANUFACTURES | 163 | 18 | 1 625 | 18 128 | 1 562 | 3 093 | 7 692 |
| 12 | BITUMINOUS COAL MINING | 397 | 83 | 8 483 | 51 342 | 7 250 | 14 055 | 42 315 |
| 1211 | BITUMINOUS COAL | 382 | 80 | 8 316 | 50 515 | 7 090 | 13 759 | 41 514 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 15 | 3 | 167 | 827 | 160 | 296 | 801 |
| 13 | OIL AND GAS EXTRACTION | 655 | 23 | 2 578 | 12 482 | 2 020 | 3 979 | 8 843 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 499 | 13 | 1 573 | 7 696 | 1 101 | 2 117 | 4 355 |
| | CRUDE PETROLEUM | 391 | 11 | 1 269 | 6 410 | 859 | 1 674 | 3 281 |
| | NATURAL GAS | 118 | 2 | 304 | 1 276 | 242 | 443 | 1 074 |
| 138 | OIL AND GAS FIELD SERVICES | 156 | 10 | 1 005 | 4 796 | 919 | 1 862 | 4 488 |
| 1381 | DRILLING OIL AND GAS WELLS | 110 | 9 | 824 | 4 267 | 759 | 1 559 | 4 008 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 40 | - | 129 | 352 | 110 | 223 | 308 |
| 10 & 14 | METAL MINING AND NONMETALLIC MINERALS (EXCEPT FUELS) MINING | 652 | 92 | 8 189 | 48 491 | 6 486 | 13 776 | 33 021 |
| | MINERAL INDUSTRIES | 489 | 74 | 6 564 | 40 363 | 4 924 | 10 683 | 25 329 |
| | INCLUDED IN MANUFACTURES | 163 | 18 | 1 625 | 18 128 | 1 562 | 3 093 | 7 692 |
| | DIMENSION STONE | 14 | 3 | 569 | 2 634 | 492 | 966 | 2 097 |
| 1421 | CRUSHED AND BROKEN STONE | 132 | 42 | 3 177 | 16 859 | 2 744 | 6 032 | 13 811 |
| | MINERAL INDUSTRY | 105 | 34 | 2 678 | 14 082 | 2 245 | 5 033 | 11 034 |
| | INCLUDED IN MANUFACTURES | 27 | 8 | 1 499 | 12 777 | 1 499 | 999 | 2 777 |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY | 99 | 34 | 2 588 | 13 482 | 2 208 | 4 962 | 10 888 |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 6 | - | 90 | 600 | 37 | 71 | 146 |
| 1441 | SAND AND GRAVEL | 366 | 32 | 2 626 | 14 135 | 2 146 | 4 489 | 11 033 |
| | MINERAL INDUSTRY | 326 | 30 | 2 546 | 13 737 | 2 066 | 4 329 | 10 635 |
| | INCLUDED IN MANUFACTURES | 40 | 2 | 180 | 1 398 | 180 | 160 | 398 |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY | 310 | 27 | 2 307 | 12 435 | 1 853 | 3 911 | 9 528 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | 16 | 3 | 239 | 1 302 | 213 | 418 | 1 107 |
| 145 | CLAY AND RELATED MINERALS | 115 | 12 | 827 | 4 301 | 775 | 1 547 | 3 818 |
| | MINERAL INDUSTRY | 27 | 8 | 349 | 1 997 | 297 | 604 | 1 514 |
| | INCLUDED IN MANUFACTURES | 88 | 4 | 1 478 | 12 304 | 1 478 | 943 | 2 304 |
| | FIRE CLAY | 62 | 11 | 1 633 | 13 394 | 1 583 | 1 150 | 2 932 |
| | CLAY AND RELATED MINERALS, N.E.C. | 53 | 1 | 1 194 | 1 907 | 1 192 | 397 | 886 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 247 090 | ³ 147 251 | ¹ 348 402 | 445 939 | 22 268 | 213 647 |
| | MINERAL INDUSTRIES | 223 883 | 140 756 | ³ 18 810 | 45 829 | 20 790 | 191 336 |
| | INCLUDED IN MANUFACTURES | 23 207 | ³ 6 495 | ¹ 29 592 | ⁴ 110 | ¹ 1 478 | 22 311 |
| 12 | BITUMINOUS COAL MINING | 107 148 | 84 034 | 169 073 | 22 109 | 10 036 | 100 954 |
| 1211 | BITUMINOUS COAL | 104 869 | 83 056 | 166 206 | 21 719 | 9 938 | 100 122 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 2 279 | 978 | 2 867 | 390 | 98 | 836 |
| 13 | OIL AND GAS EXTRACTION | 31 691 | 21 546 | 41 616 | 11 621 | 3 926 | 23 598 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 20 833 | 15 941 | 26 347 | 10 427 | 3 018 | 17 649 |
| | CRUDE PETROLEUM | 15 563 | 11 372 | 19 083 | 7 952 | 2 412 | 13 122 |
| | NATURAL GAS | 5 270 | 4 569 | 7 264 | 2 575 | 606 | 4 527 |
| 138 | OIL AND GAS FIELD SERVICES | 10 858 | 5 605 | 15 269 | 1 194 | (NA) | (NA) |
| 1381 | DRILLING OIL AND GAS WELLS | 9 730 | 4 954 | 13 613 | 1 071 | 908 | 5 287 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 769 | 558 | 1 245 | 82 | (NA) | (NA) |
| 10 & 14 | METAL MINING AND NONMETALLIC MINERALS (EXCEPT FUELS) MINING | 108 251 | ³ 41 671 | ¹ 137 710 | 12 209 | 8 306 | 89 101 |
| | MINERAL INDUSTRIES | 85 044 | 35 176 | 108 118 | 12 099 | 6 828 | 66 790 |
| | INCLUDED IN MANUFACTURES | 23 207 | ³ 6 495 | ¹ 29 592 | 110 | ¹ 1 478 | 22 311 |
| | DIMENSION STONE | 3 906 | 1 069 | 4 857 | 118 | 331 | 1 726 |
| 1421 | CRUSHED AND BROKEN STONE | 44 045 | ³ 19 635 | ¹ 58 507 | (NA) | 4 022 | 43 126 |
| | MINERAL INDUSTRY | 35 578 | 16 770 | 47 175 | 5 173 | 3 485 | 30 323 |
| | INCLUDED IN MANUFACTURES | 8 467 | ³ 2 865 | ¹ 11 332 | (NA) | ¹ 537 | 12 803 |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY | 34 640 | 16 551 | 46 140 | 5 021 | 2 931 | 26 302 |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 938 | 219 | 1 035 | 122 | 554 | 4 021 |
| 1441 | SAND AND GRAVEL | 39 215 | ³ 12 441 | ¹ 47 225 | (NA) | 2 674 | 33 504 |
| | MINERAL INDUSTRY | 37 107 | 12 180 | 44 856 | 4 431 | 2 604 | 31 576 |
| | INCLUDED IN MANUFACTURES | 2 108 | ³ 261 | ¹ 2 369 | (NA) | ¹ 70 | 1 928 |
| | CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY | 33 721 | 10 899 | 40 502 | 4 109 | ⁵ 2 337 | ⁵ 29 799 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | ³ 3 386 | 1 291 | 4 356 | 323 | ⁵ 267 | ⁵ 2 787 |
| 145 | CLAY AND RELATED MINERALS | 11 837 | ³ 3 624 | ¹ 15 080 | (NA) | 791 | 9 515 |
| | MINERAL INDUSTRY | 4 077 | 1 413 | 5 109 | 381 | 289 | 4 020 |
| | INCLUDED IN MANUFACTURES | 7 760 | ³ 2 211 | ¹ 9 971 | (NA) | ¹ 502 | 5 495 |
| | FIRE CLAY | 8 687 | ³ 2 693 | ¹ 11 022 | (NA) | ¹ 538 | 6 291 |
| | CLAY AND RELATED MINERALS, N.E.C. | 3 150 | ³ 931 | ¹ 4 058 | (NA) | ¹ 253 | 3 224 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C. Subindustries.³For crushed and broken stone, sand and gravel, and clay mining operation in manufacturing establishments, excludes the cost of purchased machinery installed.⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁵Figures for Industrial Sand, N.E.C. are included with those for the Construction Sand and Gravel Subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|---------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|---------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES . | 140 756 | 70 085 | 22 662 | 16 943 | 31 066 | 45 829 | 7 465 | 38 364 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING . . . | 84 034 | 38 314 | 21 544 | 4 851 | 19 325 | 22 109 | 804 | 21 305 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL. | 83 056 | 37 764 | 21 544 | 4 800 | 18 948 | 21 719 | 804 | 20 915 | 38 312 | 144 455 | 153 | 525 |
| 13 | OIL AND GAS EXTRACTION . . . | 21 546 | 8 163 | — | 10 214 | 3 169 | 11 621 | 6 079 | 5 542 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 15 941 | 4 196 | — | 9 553 | 2 192 | 10 427 | 5 903 | 4 524 | (x) | 24 934 | (x) | 781 |
| | CRUDE PETROLEUM. | 11 372 | 2 939 | — | 6 675 | 1 758 | 7 852 | 4 765 | 3 087 | ³ 5 431 | 16 323 | ³ 827 | 1 586 |
| | NATURAL GAS. | 4 569 | 1 257 | — | 2 878 | 434 | 2 575 | 1 138 | 1 437 | 25 675 | 6 088 | 8 101 | 1 718 |
| 138 | OIL AND GAS FIELD SERVICES | 5 605 | 3 967 | — | 661 | 977 | 1 194 | 176 | 1 018 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS | 4 954 | 3 469 | — | 575 | 910 | 1 071 | 172 | 899 | (x) | ⁴ 11 490 | (x) | (⁴) |
| 10 & 14 | METAL MINING AND NONMETALLIC MINERALS MINING | 35 176 | 23 608 | 1 118 | 1 878 | 8 572 | 12 099 | 582 | 11 517 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . | 16 770 | 12 343 | 335 | 773 | 3 319 | 5 173 | 55 | 5 118 | 29 810 | 42 888 | ⁵ 9 898 | ⁵ 11 938 |
| | CRUSHED AND BROKEN LIME-STONE SUBINDUSTRY . . . | 16 551 | 12 226 | 335 | 772 | 3 218 | 5 021 | 54 | 4 967 | ⁶ 29 580 | 41 873 | (d) | (d) |
| 1441 | SAND AND GRAVEL. | 12 180 | 7 441 | 313 | 794 | 3 632 | 4 431 | 83 | 4 348 | 35 532 | ⁷ 44 382 | ⁸ 1 785 | (⁷) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. . . | 10 889 | 6 332 | 313 | 791 | 3 453 | 4 108 | 82 | 4 026 | 33 508 | ⁷ 39 994 | ⁹ 2 305 | (⁷) |

Note: See appendix A for an explanation of terms.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁴Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁵Includes figures for stone produced and used in the same establishment in making cement and lime. The value of such stone was estimated. Excludes stone produced and used in the same establishment in making ready-mixed concrete and asphalt and tar paving mixtures and block.⁶Includes crushed and broken stone, n.e.c., produced as a secondary product in this subindustry.⁷Figures for the value of shipments of primary products by establishments classified in other industries or subindustries are included with those for the value of shipments of primary products by establishments classified in the specified industry or subindustry.⁸Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁹Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. **Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963**

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 361 | 1 271 | 768 | 138 | 188 | 442 | 488 | 34 | 412 | 42 | 15 | 90 |
| | NUMBER OF EMPLOYEES..... | 14 954 | 14 873 | 4 450 | 1 150 | 1 632 | 1 668 | 9 981 | 2 836 | 6 136 | 1 009 | 442 | 81 |
| | VALUE ADDED IN MINING.....\$1,000.. | 210 406 | 210 278 | 59 092 | 7 535 | 23 382 | 28 175 | 144 759 | 37 668 | 91 179 | 15 912 | 6 427 | 128 |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 382 | 380 | 260 | 137 | 96 | 27 | 112 | 31 | 60 | 21 | 8 | 2 |
| | NUMBER OF EMPLOYEES..... | 7 856 | (D) | 2 745 | (D) | (D) | 372 | 4 743 | 2 346 | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 104 868 | (D) | 34 222 | (D) | (D) | 7 470 | 65 247 | 27 598 | (D) | (D) | (D) | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 499 | 415 | 415 | - | - | 415 | - | - | - | - | - | 84 |
| | NUMBER OF EMPLOYEES..... | 1 370 | 1 296 | 1 296 | - | - | 1 296 | - | - | - | - | - | 74 |
| | VALUE ADDED IN MINING.....\$1,000.. | 20 833 | 20 705 | 20 705 | - | - | 20 705 | - | - | - | - | - | 128 |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 105 | 103 | 6 | - | 6 | - | 94 | 1 | 93 | - | 3 | 2 |
| | NUMBER OF EMPLOYEES..... | 2 607 | (D) | 81 | - | 81 | - | 2 471 | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 35 578 | (D) | 806 | - | 806 | - | 34 318 | (D) | (D) | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 326 | 326 | 54 | - | 54 | - | 270 | - | 249 | 21 | 2 | - |
| | NUMBER OF EMPLOYEES..... | 2 433 | 2 433 | (D) | - | (D) | - | 2 251 | - | (D) | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 37 107 | 37 107 | (D) | - | (D) | - | 35 325 | - | (D) | (D) | (D) | - |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 27 | 27 | 19 | 1 | 18 | - | 8 | - | 8 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 349 | 349 | 117 | (D) | (D) | - | 232 | - | 232 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 077 | 4 077 | 1 593 | (D) | (D) | - | 2 484 | - | 2 484 | - | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 1 704 | 198 | 19 250 | 112 315 | 15 756 | 31 810 | 84 179 | 247 090 | 147 251 | 348 402 | 45 939 | 22 268 | 213 647 |
| | MINERAL INDUSTRIES | 1 541 | 180 | 17 625 | 104 187 | 14 194 | 28 717 | 76 487 | 223 883 | 140 756 | 318 810 | 45 829 | 20 790 | 191 336 |
| | INCLUDED IN MANUFACTURES ² | 163 | 18 | 1 625 | 8 128 | 1 562 | 3 093 | 7 692 | 23 207 | 6 495 | 29 592 | 110 | 1 478 | 22 311 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALLEN COUNTY, TOTAL. | 5 | 2 | 87 | 409 | 77 | 181 | 346 | 1 068 | 449 | 1 321 | 196 | 106 | 1 185 |
| | ASHLAND COUNTY, TOTAL. | 37 | - | 40 | 154 | 35 | 66 | 137 | 546 | 251 | 720 | 77 | 66 | - |
| | ASHTABULA COUNTY, TOTAL. | 16 | - | 56 | 257 | 43 | 81 | 210 | 338 | 2 140 | 2 408 | 70 | 58 | - |
| | ATHENS COUNTY, TOTAL | 57 | 1 | 244 | 931 | 208 | 346 | 781 | 2 005 | 2 128 | 3 614 | 519 | 370 | - |
| 12 | BITUMINOUS COAL MINING | 21 | 1 | 163 | 593 | 141 | 220 | 510 | 1 197 | 1 414 | 2 562 | 49 | 274 | 2 060 |
| 13 | OIL AND GAS EXTRACTION | 30 | - | 48 | 197 | 40 | 75 | 158 | 487 | 580 | 632 | 435 | - | - |
| | AUGLAIZE COUNTY, TOTAL | 5 | 1 | 45 | 250 | 39 | 92 | 211 | 519 | 222 | 632 | 109 | 58 | 218 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 45 | 250 | 39 | 92 | 211 | 519 | 222 | 632 | 109 | - | - |
| | BELMONT COUNTY, TOTAL. | 43 | 11 | 1 538 | 9 748 | 1 329 | 2 458 | 8 092 | 23 121 | 9 053 | 30 287 | 1 887 | 1 972 | - |
| 12 | BITUMINOUS COAL MINING | 37 | 11 | 1 520 | 9 609 | 1 320 | 2 439 | 8 062 | 23 055 | 9 013 | 30 190 | 1 878 | 1 948 | 19 465 |
| | BUTLER COUNTY, TOTAL | 8 | 2 | 75 | 464 | 59 | 120 | 338 | 2 226 | 306 | 2 424 | 108 | - | - |
| | CARROLL COUNTY, TOTAL. | 14 | 1 | 117 | 642 | 99 | 201 | 544 | 1 181 | 652 | 1 767 | 66 | 198 | - |
| 12 | BITUMINOUS COAL MINING | 10 | 1 | 103 | 562 | 88 | 184 | 476 | 1 122 | 629 | 1 687 | 64 | 143 | 849 |
| | CLARK COUNTY, TOTAL. | 10 | - | 57 | 265 | 45 | 93 | 184 | 876 | 200 | 848 | 228 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 10 | - | 57 | 265 | 45 | 93 | 184 | 876 | 200 | 848 | 228 | - | - |
| | COLUMBIANA COUNTY, TOTAL | 54 | 4 | 373 | 1 926 | 335 | 686 | 1 716 | 5 416 | 2 091 | 6 852 | 655 | 506 | - |
| 12 | BITUMINOUS COAL MINING | 39 | 3 | 328 | 1 697 | 291 | 593 | 1 495 | 4 948 | 1 923 | 6 273 | 598 | 394 | 3 884 |
| 14 | NONMETALLIC MINERALS MINING. | 8 | 1 | 38 | 186 | 37 | 80 | 178 | 405 | 126 | 496 | 35 | 101 | 1 490 |
| | COSHOCTON COUNTY, TOTAL. | 88 | 6 | 545 | 2 892 | 500 | 1 007 | 2 651 | 8 852 | 9 790 | 10 896 | 7 746 | 621 | - |
| 12 | BITUMINOUS COAL MINING | 17 | 5 | 364 | 2 097 | 335 | 674 | 1 925 | 6 609 | 8 591 | 8 161 | 7 039 | 395 | 4 168 |
| 13 | OIL AND GAS EXTRACTION | 58 | 1 | 130 | 544 | 117 | 237 | 480 | 1 525 | 1 103 | 1 974 | 654 | 183 | - |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. | 37 | 1 | 95 | 425 | 84 | 171 | 374 | 1 219 | 986 | 1 568 | 637 | 85 | - |
| 14 | NONMETALLIC MINERALS MINING. | 13 | - | 51 | 251 | 48 | 96 | 246 | 718 | 96 | 761 | 53 | - | - |
| | CUYAHOGA COUNTY, TOTAL | 27 | 3 | 1 104 | 11 760 | 237 | 556 | 1 660 | 5 052 | 3 615 | 6 611 | 2 056 | 965 | - |
| 13 | OIL AND GAS EXTRACTION | 15 | 1 | 55 | 163 | 16 | 32 | 65 | 421 | 153 | 501 | 73 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 12 | 2 | 251 | 1 850 | 215 | 512 | 1 554 | 4 575 | 3 456 | 6 048 | 1 983 | - | - |
| 144 | SAND AND GRAVEL. | 8 | - | 51 | 321 | 45 | 95 | 275 | 633 | 397 | 954 | 76 | 90 | 1 008 |
| | DELAWARE COUNTY, TOTAL | 9 | 1 | 78 | 352 | 65 | 161 | 292 | 842 | 350 | 1 122 | 70 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 59 | 246 | 52 | 127 | 214 | 705 | 244 | 892 | 57 | - | - |
| | FAYETTE COUNTY, TOTAL. | 5 | 2 | 66 | 311 | 56 | 123 | 223 | 543 | 198 | 713 | 28 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 2 | 66 | 311 | 56 | 123 | 223 | 543 | 198 | 713 | 28 | - | - |
| | FRANKLIN COUNTY, TOTAL | 26 | 5 | 657 | 3 080 | 518 | 1 224 | 2 118 | 8 724 | 2 422 | 10 248 | 898 | 626 | 6 421 |
| 14 | NONMETALLIC MINERALS MINING. | 19 | 4 | 586 | 2 427 | 506 | 1 203 | 2 068 | 8 538 | 2 350 | 10 103 | 785 | - | - |
| | GALLIA COUNTY, TOTAL | 28 | 4 | 282 | 1 196 | 266 | 525 | 1 138 | 3 089 | 2 239 | 5 087 | 241 | 322 | - |
| 12 | BITUMINOUS COAL MINING | 18 | 2 | 166 | 775 | 159 | 279 | 749 | 1 793 | 1 688 | 3 392 | 89 | 244 | 1 981 |
| 1211 | BITUMINOUS COAL. | 18 | 2 | 166 | 775 | 159 | 279 | 749 | 1 793 | 1 688 | 3 392 | 89 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 2 | 114 | 414 | 106 | 244 | 383 | 1 266 | 541 | 1 656 | 151 | - | - |
| | GREENE COUNTY, TOTAL | 9 | - | 55 | 304 | 43 | 94 | 205 | 721 | 182 | 835 | 68 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 9 | - | 55 | 304 | 43 | 94 | 205 | 721 | 182 | 835 | 68 | - | - |
| 144 | SAND AND GRAVEL. | 9 | - | 55 | 304 | 43 | 94 | 205 | 721 | 182 | 835 | 68 | 30 | 99 |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|---------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 12 | GUERNSEY COUNTY, TOTAL | 17 | 3 | 106 | 440 | 96 | 191 | 411 | 973 | 1 233 | 1 946 | 260 | 132 | - |
| | BITUMINOUS COAL MINING | 8 | 3 | 78 | 311 | 74 | 139 | 293 | 785 | 1 162 | 1 697 | 250 | - | - |
| 14 | HAMILTON COUNTY, TOTAL | 25 | 6 | 368 | 1 971 | 295 | 580 | 1 378 | 6 881 | 5 262 | 11 670 | 473 | 262 | 4 538 |
| | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | 16 | 3 | 185 | 978 | 162 | 343 | 836 | 4 463 | 692 | 4 791 | 364 | 182 | 3 091 |
| | | | | | | | | | | | | | | |
| 12 | HARRISON COUNTY, TOTAL | 33 | 11 | 2 139 | 14 502 | 1 786 | 3 476 | 11 911 | 26 552 | 23 841 | 47 519 | 2 874 | 2 119 | - |
| | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 1211 | BITUMINOUS COAL | 29 | 11 | 1 914 | 13 143 | 1 761 | 3 432 | 11 777 | 25 966 | 23 656 | 46 869 | 2 753 | - | - |
| | | | | | | | | | | | | | | |
| 12 | HIGHLAND COUNTY, TOTAL | 7 | 1 | 55 | 240 | 47 | 117 | 202 | 646 | 372 | 939 | 79 | - | - |
| | | | | | | | | | | | | | | |
| 13 | HOCKING COUNTY, TOTAL | 52 | - | 116 | 421 | 106 | 196 | 381 | 2 176 | 1 110 | 2 689 | 597 | 100 | - |
| | OIL AND GAS EXTRACTION | 48 | - | 98 | 342 | 88 | 163 | 302 | 1 961 | 985 | 2 429 | 517 | - | - |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 34 | - | 60 | 227 | 53 | 98 | 190 | 1 661 | 785 | 1 942 | 504 | - | - |
| | | | | | | | | | | | | | | |
| 13 | HOLMES COUNTY, TOTAL | 68 | 2 | 262 | 1 315 | 220 | 462 | 1 072 | 2 904 | 1 384 | 3 708 | 580 | 192 | - |
| | OIL AND GAS EXTRACTION | 58 | - | 177 | 846 | 154 | 301 | 727 | 2 085 | 764 | 2 553 | 296 | 145 | - |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 39 | - | 101 | 470 | 84 | 163 | 368 | 1 333 | 405 | 1 497 | 241 | 67 | - |
| | OIL AND GAS FIELD SERVICES | 19 | - | 76 | 376 | 70 | 138 | 359 | 752 | 359 | 1 056 | 55 | - | - |
| 138 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 12 | JACKSON COUNTY, TOTAL | 23 | 3 | 155 | 727 | 134 | 262 | 564 | 2 065 | 1 622 | 2 813 | 874 | 173 | - |
| | BITUMINOUS COAL MINING | 16 | 1 | 81 | 338 | 76 | 147 | 307 | 984 | 1 299 | 1 542 | 741 | 107 | 806 |
| 1211 | BITUMINOUS COAL | 16 | 1 | 81 | 338 | 76 | 147 | 307 | 984 | 1 299 | 1 542 | 741 | - | - |
| | | | | | | | | | | | | | | |
| 12 | JEFFERSON COUNTY, TOTAL | 42 | 14 | 914 | 5 323 | 811 | 1 556 | 4 634 | 11 953 | 9 502 | 18 760 | 2 695 | 986 | - |
| | | | | | | | | | | | | | | |
| 13 | KNOX COUNTY, TOTAL | 57 | - | 126 | 550 | 106 | 200 | 471 | 1 516 | 621 | 1 851 | 286 | 172 | - |
| | OIL AND GAS EXTRACTION | 49 | - | 82 | 310 | 71 | 129 | 264 | 920 | 550 | 1 199 | 271 | - | - |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | - | 50 | 161 | 40 | 68 | 121 | 575 | 351 | 735 | 191 | - | - |
| | NONMETALLIC MINERALS MINING | 8 | - | 41 | 227 | 35 | 71 | 207 | 596 | 71 | 652 | 15 | 100 | 1 121 |
| 14 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 12 | LAWRENCE COUNTY, TOTAL | 18 | 4 | 202 | 845 | 185 | 352 | 736 | 2 737 | 1 136 | 2 852 | 1 021 | 161 | - |
| | BITUMINOUS COAL MINING | 5 | 2 | 136 | 513 | 129 | 233 | 498 | 1 628 | 760 | 1 449 | 939 | - | - |
| 1211 | BITUMINOUS COAL | 5 | 2 | 136 | 513 | 129 | 233 | 498 | 1 628 | 760 | 1 449 | 939 | - | - |
| | NONMETALLIC MINERALS MINING | 8 | 1 | 60 | 306 | 51 | 110 | 220 | 1 032 | 343 | 1 301 | 74 | - | - |
| 14 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | LICKING COUNTY, TOTAL | 76 | 2 | 286 | 1 417 | 252 | 511 | 1 164 | 2 735 | 1 577 | 3 492 | 820 | 335 | - |
| | OIL AND GAS EXTRACTION | 65 | 2 | 235 | 1 180 | 207 | 424 | 962 | 2 274 | 1 408 | 2 931 | 751 | 276 | - |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 36 | 2 | 164 | 814 | 143 | 283 | 647 | 1 614 | 878 | 1 842 | 650 | 216 | - |
| | OIL AND GAS FIELD SERVICES | 29 | - | 71 | 366 | 64 | 141 | 315 | 660 | 530 | 1 089 | 101 | - | - |
| 138 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 14 | LORAIN COUNTY, TOTAL | 9 | - | 31 | 226 | 21 | 44 | 154 | 426 | 227 | 622 | 31 | 619 | - |
| | | | | | | | | | | | | | | |
| 14 | LUCAS COUNTY, TOTAL | 12 | 2 | 112 | 645 | 100 | 217 | 515 | 1 626 | 618 | 1 867 | 377 | - | - |
| | NONMETALLIC MINERALS MINING | 8 | 2 | 110 | 626 | 98 | 214 | 496 | 1 592 | 590 | 1 809 | 373 | 52 | - |
| 12 | MAHONING COUNTY, TOTAL | 29 | 7 | 512 | 2 943 | 421 | 861 | 2 337 | 6 510 | 5 592 | 11 052 | 1 050 | - | - |
| | BITUMINOUS COAL MINING | 17 | 5 | 303 | 1 650 | 269 | 575 | 1 434 | 3 749 | 3 793 | 6 836 | 706 | 204 | 2 331 |
| 1211 | BITUMINOUS COAL | 17 | 5 | 303 | 1 650 | 269 | 575 | 1 434 | 3 749 | 3 793 | 6 836 | 706 | - | - |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | OIL AND GAS FIELD SERVICES | 4 | - | 22 | 133 | 19 | 35 | 123 | 868 | 143 | 1 011 | - | - | - |
| | | | | | | | | | | | | | | |
| 14 | MARION COUNTY, TOTAL | 13 | 1 | 69 | 393 | 62 | 137 | 340 | 995 | 445 | 1 173 | 267 | 73 | 696 |
| | NONMETALLIC MINERALS MINING | 5 | 1 | 54 | 292 | 48 | 101 | 249 | 765 | 314 | 919 | 160 | - | - |
| 14 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | MEDINA COUNTY, TOTAL | 33 | - | 113 | 618 | 101 | 222 | 556 | 2 336 | 755 | 2 409 | 682 | 194 | - |
| | OIL AND GAS EXTRACTION | 28 | - | 76 | 366 | 70 | 164 | 334 | 1 867 | 536 | 1 798 | 605 | 148 | - |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 21 | - | 65 | 295 | 59 | 145 | 269 | 1 661 | 402 | 1 514 | 549 | - | - |
| | NONMETALLIC MINERALS MINING | 5 | - | 37 | 252 | 31 | 58 | 222 | 469 | 219 | 611 | 77 | - | - |
| 14 | SAND AND GRAVEL | 5 | - | 37 | 252 | 31 | 58 | 222 | 469 | 219 | 611 | 77 | - | - |
| | | | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|---------------------------------------|-----------------------------|---------------------------|---------------|---------|--|-----------|-------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 12 | MEIGS COUNTY, TOTAL | 28 | 2 | 178 | 544 | 160 | 283 | 491 | 1 535 | 733 | 2 126 | 142 | 253 | - |
| 1211 | BITUMINOUS COAL MINING | 9 | 1 | 123 | 304 | 114 | 196 | 292 | 579 | 507 | 1 020 | 66 | 128 | - |
| | BITUMINOUS COAL | 9 | 1 | 123 | 304 | 114 | 196 | 292 | 579 | 507 | 1 020 | 66 | - | - |
| 14 | MIAMI COUNTY, TOTAL | 7 | 2 | 143 | 711 | 116 | 245 | 593 | 919 | 914 | 1 786 | 47 | 110 | - |
| | NONMETALLIC MINERALS MINING | 7 | 2 | 143 | 711 | 116 | 245 | 593 | 919 | 914 | 1 786 | 47 | - | - |
| 13 | MONROE COUNTY, TOTAL | 64 | - | 78 | 156 | 60 | 108 | 133 | 702 | 244 | 819 | 127 | 105 | - |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 54 | - | 54 | 86 | 41 | 72 | 65 | 554 | 166 | 602 | 118 | - | - |
| 14 | MONTGOMERY COUNTY, TOTAL | 24 | 4 | 199 | 1 045 | 170 | 368 | 837 | 3 309 | 773 | 3 615 | 467 | - | - |
| | NONMETALLIC MINERALS MINING | 24 | 4 | 199 | 1 045 | 170 | 368 | 837 | 3 309 | 773 | 3 615 | 467 | 192 | 2 638 |
| 13 | MORROW COUNTY, TOTAL | 66 | 2 | 224 | 1 200 | 187 | 396 | 998 | 3 833 | 3 553 | 5 316 | 2 070 | - | - |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 27 | - | 48 | 227 | 31 | 52 | 135 | 1 962 | 2 347 | 2 619 | 1 690 | - | - |
| 12 | MUSKINGUM COUNTY, TOTAL | 64 | 6 | 314 | 1 718 | 265 | 560 | 1 363 | 3 785 | 1 901 | 5 004 | 682 | 431 | - |
| 1211 | BITUMINOUS COAL MINING | 16 | 1 | 82 | 293 | 70 | 126 | 253 | 398 | 121 | 500 | 19 | 180 | 1 483 |
| 13 | BITUMINOUS COAL | 16 | 1 | 82 | 293 | 70 | 126 | 253 | 398 | 121 | 500 | 19 | - | - |
| 131 | OIL AND GAS EXTRACTION | 42 | 1 | 104 | 567 | 90 | 193 | 494 | 1 523 | 1 021 | 2 124 | 420 | 163 | - |
| 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 30 | - | 58 | 270 | 51 | 98 | 233 | 749 | 520 | 908 | 361 | 85 | - |
| 14 | OIL AND GAS FIELD SERVICES | 12 | 1 | 46 | 297 | 39 | 95 | 261 | 774 | 501 | 1 216 | 59 | 78 | - |
| | NONMETALLIC MINERALS MINING | 6 | 4 | 116 | 724 | 105 | 241 | 616 | 1 864 | 759 | 2 380 | 243 | 88 | 952 |
| 12 | NOBLE COUNTY, TOTAL | 31 | 3 | 234 | 1 430 | 190 | 392 | 1 229 | 3 479 | 2 531 | 5 358 | 652 | 191 | - |
| 1211 | BITUMINOUS COAL MINING | 9 | 3 | 193 | 1 291 | 156 | 324 | 1 101 | 3 121 | 2 416 | 4 937 | 600 | 135 | 1 608 |
| | BITUMINOUS COAL | 9 | 3 | 193 | 1 291 | 156 | 324 | 1 101 | 3 121 | 2 416 | 4 937 | 600 | - | - |
| 12 | PERRY COUNTY, TOTAL | 94 | 4 | 528 | 3 331 | 483 | 973 | 3 062 | 9 159 | 5 300 | 12 687 | 1 772 | 740 | - |
| 1211 | BITUMINOUS COAL MINING | 18 | 2 | 266 | 2 160 | 243 | 495 | 1 996 | 5 689 | 3 237 | 7 986 | 940 | 461 | 5 321 |
| 13 | BITUMINOUS COAL | 18 | 2 | 266 | 2 160 | 243 | 495 | 1 996 | 5 689 | 3 237 | 7 986 | 940 | - | - |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 50 | - | 69 | 270 | 54 | 100 | 196 | 1 337 | 793 | 1 607 | 523 | 156 | - |
| 13 | PORTAGE COUNTY, TOTAL | 49 | 5 | 345 | 1 812 | 293 | 574 | 1 572 | 5 849 | 4 344 | 7 963 | 2 230 | 236 | - |
| 131 | OIL AND GAS EXTRACTION | 22 | 3 | 138 | 594 | 113 | 200 | 532 | 2 293 | 2 963 | 3 670 | 1 586 | - | - |
| 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 14 | 1 | 41 | 118 | 27 | 39 | 101 | 1 032 | 2 105 | 1 579 | 1 558 | - | - |
| | OIL AND GAS FIELD SERVICES | 8 | 2 | 97 | 476 | 86 | 161 | 431 | 1 261 | 858 | 2 091 | 28 | - | - |
| 14 | PREBLE COUNTY, TOTAL | 4 | 1 | 54 | 216 | 49 | 118 | 193 | 599 | 182 | 690 | 91 | - | - |
| | NONMETALLIC MINERALS MINING | 4 | 1 | 54 | 216 | 49 | 118 | 193 | 599 | 182 | 690 | 91 | 47 | 225 |
| 14 | RICHLAND COUNTY, TOTAL | 19 | 1 | 91 | 375 | 72 | 155 | 298 | 797 | 646 | 1 189 | 254 | 55 | 517 |
| | NONMETALLIC MINERALS MINING | 6 | 1 | 81 | 308 | 66 | 139 | 240 | 779 | 298 | 918 | 159 | - | - |
| 14 | ROSS COUNTY, TOTAL | 6 | 1 | 61 | 216 | 54 | 108 | 186 | 486 | 261 | 664 | 83 | - | - |
| | NONMETALLIC MINERALS MINING | 6 | 1 | 61 | 216 | 54 | 108 | 186 | 486 | 261 | 664 | 83 | - | - |
| 14 | SANDUSKY COUNTY, TOTAL | 9 | 1 | 79 | 374 | 74 | 148 | 354 | 1 245 | 294 | 1 416 | 123 | 124 | - |
| 12 | SENECA COUNTY, TOTAL | 10 | - | 42 | 177 | 35 | 58 | 136 | 360 | 267 | 548 | 79 | - | - |
| 13 | STARK COUNTY, TOTAL | 58 | 5 | 401 | 2 242 | 334 | 717 | 1 825 | 5 261 | 2 672 | 7 001 | 932 | 463 | - |
| 138 | BITUMINOUS COAL MINING | 15 | 2 | 157 | 743 | 128 | 260 | 616 | 1 554 | 895 | 2 146 | 303 | 275 | 1 985 |
| 14 | OIL AND GAS EXTRACTION | 22 | - | 52 | 312 | 48 | 101 | 270 | 634 | 401 | 882 | 153 | 50 | - |
| 144 | OIL AND GAS FIELD SERVICES | 7 | - | 32 | 190 | 29 | 67 | 160 | 318 | 296 | 568 | 46 | - | - |
| | NONMETALLIC MINERALS MINING | 21 | 3 | 186 | 1 150 | 158 | 356 | 939 | 3 073 | 1 376 | 3 973 | 476 | 138 | 2 015 |
| | SAND AND GRAVEL | 12 | 1 | 99 | 690 | 85 | 204 | 573 | 1 911 | 716 | 2 258 | 369 | - | - |
| 14 | SUMMIT COUNTY, TOTAL | 35 | 2 | 319 | 1 946 | 255 | 482 | 1 555 | 3 903 | 1 215 | 4 605 | 513 | 352 | - |
| | NONMETALLIC MINERALS MINING | 17 | 2 | 286 | 1 779 | 230 | 442 | 1 433 | 3 482 | 975 | 4 083 | 374 | 324 | 3 400 |
| 12 | TUSCARAWAS COUNTY, TOTAL | 96 | 8 | 717 | 3 796 | 651 | 1 313 | 3 319 | 8 137 | 4 636 | 10 972 | 1 801 | 881 | - |
| 13 | BITUMINOUS COAL MINING | 49 | 8 | 576 | 3 006 | 522 | 1 045 | 2 677 | 5 925 | 3 927 | 8 342 | 1 510 | 754 | 5 935 |
| | OIL AND GAS EXTRACTION | 29 | - | 52 | 283 | 46 | 98 | 222 | 667 | 213 | 787 | 93 | - | - |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|------------------|--|-----------------------------|--------------------------------------|-----------------|-------------------|---|------------------|-------------------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 14 144 | NONMETALLIC MINERALS MINING. SAND AND GRAVEL. | 18 9 | - - | 89 48 | 507 292 | 83 46 | 170 99 | 420 287 | 1 545 1 106 | 496 256 | 1 843 1 260 | 198 102 | 101 - | 1 301 - |
| | UNION COUNTY, TOTAL. | 4 | 1 | 67 | 291 | 62 | 138 | 280 | 334 | 670 | 911 | 93 | - | - |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 1 | 67 | 291 | 62 | 138 | 280 | 334 | 670 | 911 | 93 | - | - |
| | WARREN COUNTY, TOTAL. | 12 | - | 62 | 308 | 56 | 113 | 284 | 1 089 | 419 | 1 173 | 335 | - | - |
| 14 144 | NONMETALLIC MINERALS MINING. SAND AND GRAVEL. | 12 12 | - - | 62 62 | 308 308 | 56 56 | 113 113 | 284 284 | 1 089 1 089 | 419 419 | 1 173 1 173 | 335 335 | - 24 | - 207 |
| | WASHINGTON COUNTY, TOTAL. | 142 | - | 190 | 499 | 133 | 271 | 424 | 2 212 | 694 | 2 452 | 454 | 240 | - |
| 13 131 | OIL AND GAS EXTRACTION. CRUDE PETROLEUM AND NATURAL GAS. . | 136 109 | - - | 167 114 | 352 151 | 117 69 | 228 133 | 295 103 | 1 894 1 508 | 561 402 | 2 098 1 608 | 357 302 | 177 152 | - - |
| | WAYNE COUNTY, TOTAL. | 53 | 1 | 224 | 1 076 | 191 | 388 | 945 | 3 375 | 1 641 | 4 477 | 539 | 318 | - |
| 13 131 138 | OIL AND GAS EXTRACTION. CRUDE PETROLEUM AND NATURAL GAS. . OIL AND GAS FIELD SERVICES. | 46 32 14 | 1 - 1 | 138 61 77 | 731 276 455 | 119 53 66 | 243 97 146 | 654 236 418 | 2 585 1 237 1 348 | 1 342 556 786 | 3 443 1 536 1 907 | 484 257 227 | 217 99 118 | - - - |
| | WOOD COUNTY, TOTAL. | 8 | - | 37 | 181 | 32 | 47 | 147 | 444 | 127 | 522 | 49 | 65 | - |
| | WYANDOT COUNTY, TOTAL. | 13 | 3 | 226 | 1 144 | 196 | 422 | 953 | 3 071 | 1 341 | 3 808 | 604 | 235 | 2 355 |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 3 | 223 | 1 127 | 193 | 416 | 938 | 2 872 | 1 221 | 3 766 | 327 | - | - |
| | UNDISTRIBUTED, TOTAL. | 71 | - | 129 | 544 | 105 | 209 | 410 | 1 635 | 2 251 | 2 471 | 1 415 | - | - |
| 13 131 138 | OIL AND GAS EXTRACTION. CRUDE PETROLEUM AND NATURAL GAS. . OIL AND GAS FIELD SERVICES. | 71 39 32 | - - - | 129 62 67 | 544 283 261 | 105 43 62 | 209 80 129 | 410 168 242 | 1 635 629 1 006 | 2 251 1 464 787 | 2 471 1 059 1 412 | 1 415 1 034 381 | 232 139 93 | - - - |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 111 Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 121 Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|------|-----|------|-----|------|-----|-----|-----|------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M |
| OHIO, TOTAL | 1 704 | 1 541 | 163 | - | - | - | - | - | - | - | 1 | - | - | 382 | 15 | 499 | - | 156 | 8 | 6 | 105 | 27 | 326 | 40 | 27 | 88 | 3 | 9 | 10 | 2 |
| NO EMPLOYEES | 258 | 252 | 6 | - | - | - | - | - | - | - | - | - | - | 33 | 1 | 163 | - | 27 | - | - | 2 | - | 23 | 4 | 2 | - | - | - | 1 | - |
| 1-4 EMPLOYEES | 801 | 695 | 106 | - | - | - | - | - | - | - | - | - | - | 135 | 6 | 276 | - | 72 | 7 | 3 | 418 | 8 | 151 | 33 | 13 | 62 | 1 | 7 | 8 | 1 |
| 5-9 EMPLOYEES | 240 | 223 | 17 | - | - | - | - | - | - | - | - | - | - | 60 | 2 | 39 | - | 26 | 1 | - | 17 | 6 | 72 | 1 | 4 | 9 | - | 2 | 1 | - |
| 10-19 EMPLOYEES | 207 | 191 | 16 | - | - | - | - | - | - | - | 1 | - | - | 74 | 3 | 8 | - | 21 | - | - | 34 | 5 | 50 | - | 11 | - | - | - | - | - |
| 20-49 EMPLOYEES | 135 | 125 | 10 | - | - | - | - | - | - | - | - | - | - | 49 | 3 | 10 | - | 8 | - | - | 21 | 6 | 27 | 2 | 7 | 1 | - | - | - | 1 |
| 50-99 EMPLOYEES | 38 | 33 | 5 | - | - | - | - | - | - | - | - | - | - | 15 | - | 3 | - | 2 | - | - | 9 | 2 | 3 | - | 1 | 3 | - | - | - | - |
| 100-249 EMPLOYEES | 18 | 16 | 2 | - | - | - | - | - | - | - | - | - | - | 11 | - | - | - | - | - | 2 | 3 | - | - | - | - | 2 | - | - | - | - |
| 250-499 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| ADAMS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ALLEN COUNTY, TOTAL | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 4 | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | 2 | - | - | - | - | - | - | - | - |
| 20-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| ASHLAND COUNTY, TOTAL | 39 | 37 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 26 | - | 8 | - | - | - | - | 3 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 37 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 26 | - | 8 | - | - | - | - | 3 | 1 | - | 1 | - | - | - | - |
| ASHTABULA COUNTY, TOTAL | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 1 | - | - | 2 | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 1 | - | - | 2 | - | 5 | - | - | - | - | - | - | - |
| ATHENS COUNTY, TOTAL | 64 | 57 | 7 | - | - | - | - | - | - | - | - | - | - | 20 | 1 | 20 | - | 10 | - | - | 4 | - | 2 | 1 | - | 6 | - | - | - | - |
| 0-19 EMPLOYEES | 63 | 56 | 7 | - | - | - | - | - | - | - | - | - | - | 19 | 1 | 20 | - | 10 | - | - | 4 | - | 2 | 1 | - | 6 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| AUGLAIZE COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| BELMONT COUNTY, TOTAL | 43 | 43 | - | - | - | - | - | - | - | - | - | - | - | 34 | 3 | 3 | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 32 | 32 | - | - | - | - | - | - | - | - | - | - | - | 23 | 3 | 3 | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| BROWN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| BUTLER COUNTY, TOTAL | 16 | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 7 | 8 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 6 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 5 | 7 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | - | - | - | - | - | - |
| CARROLL COUNTY, TOTAL | 17 | 14 | 3 | - | - | - | - | - | - | - | - | - | - | 8 | 2 | 2 | - | - | - | 1 | 1 | - | 1 | - | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 16 | 13 | 3 | - | - | - | - | - | - | - | - | - | - | 7 | 2 | 2 | - | - | - | 1 | 1 | - | 1 | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CHAMPAIGN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| CLARK COUNTY, TOTAL | 13 | 10 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 9 | 2 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 10 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 9 | 2 | - | - | 1 | - | - | - | - |
| CLERMONT COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CLINTON COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| COLUMBIANA COUNTY, TOTAL | 56 | 54 | 2 | - | - | - | - | - | - | - | - | - | - | 35 | 4 | 5 | - | 2 | - | - | - | - | 6 | - | 1 | 2 | 2 | 1 | - | - |
| 0-19 EMPLOYEES | 52 | 50 | 2 | - | - | - | - | - | - | - | - | - | - | 32 | 4 | 5 | - | 2 | - | - | - | - | 6 | - | 2 | 2 | 1 | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| COSHOCTON COUNTY, TOTAL | 88 | 88 | - | - | - | - | - | - | - | - | - | - | - | 15 | 2 | 37 | - | 21 | 4 | - | - | 7 | - | - | - | - | - | 2 | - | |

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| ROSS COUNTY, TOTAL | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | 1 | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| SANDUSKY COUNTY, TOTAL | 13 | 9 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | 2 | 4 | 1 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 11 | 8 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | 1 | 3 | 1 | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| SCIOTO COUNTY, TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 3 | - | 3 | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| SENECA COUNTY, TOTAL | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | - | 2 | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| SHELBY COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 1 | - | - |
| STARK COUNTY, TOTAL | 68 | 58 | 10 | - | - | - | - | - | - | - | - | - | - | 14 | 1 | 15 | - | 7 | - | - | 2 | 1 | 12 | 1 | 3 | 3 | - | 3 | 1 | - |
| 0-19 EMPLOYEES | 59 | 53 | 6 | - | - | - | - | - | - | - | - | - | - | 12 | 1 | 15 | - | 7 | - | - | 1 | - | 11 | 1 | 2 | 5 | - | 3 | 1 | - |
| 20-99 EMPLOYEES | 9 | 5 | 4 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | 1 | - | 1 | 1 | 3 | - | - | - | - |
| SUMMIT COUNTY, TOTAL | 37 | 35 | 2 | - | - | - | - | - | - | - | - | - | - | 2 | - | 12 | - | 4 | - | - | 1 | - | 14 | 2 | - | - | - | 2 | - | - |
| 0-19 EMPLOYEES | 35 | 33 | 2 | - | - | - | - | - | - | - | - | - | - | 2 | - | 12 | - | 4 | - | - | - | - | 13 | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| TRUMBULL COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| TUSCARAWAS COUNTY, TOTAL | 114 | 96 | 18 | - | - | - | - | - | - | - | - | - | - | 48 | 1 | 19 | - | 10 | - | - | 1 | - | 9 | - | 7 | 18 | - | 1 | - | - |
| 0-19 EMPLOYEES | 104 | 88 | 16 | - | - | - | - | - | - | - | - | - | - | 40 | 1 | 19 | - | 10 | - | - | 1 | - | 9 | - | 7 | 16 | - | 1 | - | - |
| 20-99 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - |
| UNION COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| VAN WERT COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| VINTON COUNTY, TOTAL | 17 | 16 | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | 6 | - | 2 | - | - | 1 | - | - | 1 | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 17 | 16 | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | 6 | - | 2 | - | - | 1 | - | - | 1 | 1 | - | - | - | - | - |
| WARREN COUNTY, TOTAL | 14 | 12 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 12 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | 2 | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 142 | 142 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 109 | - | 27 | - | - | - | - | 4 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 142 | 142 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 109 | - | 27 | - | - | - | - | 4 | - | - | - | - | - | 1 | - |
| WAYNE COUNTY, TOTAL | 55 | 53 | 2 | - | - | - | - | - | - | - | - | - | - | 2 | - | 32 | - | 14 | - | - | 2 | - | 3 | - | 2 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 54 | 52 | 2 | - | - | - | - | - | - | - | - | - | - | 2 | - | 32 | - | 13 | - | - | 2 | - | 3 | - | 2 | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WILLIAMS COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 6 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | 6 | - | - | - | - | - | - | - |
| WOOD COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 2 | - | - | - | - | - | - | 2 | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 2 | - | - | - | - | - | - | 2 | - | - |
| WYANDOT COUNTY, TOTAL | 15 | 13 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | 4 | 1 | 2 | - | 1 | 1 | - | 1 | - | - |
| 0-19 EMPLOYEES | 12 | 10 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | 2 | 1 | - | - | 1 | 1 | - | - | 1 | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 71 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | 39 | - | 32 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 71 | 71 | - | - | - | - | - | - | - | - | - | - | - | - | - | 39 | - | 32 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero,
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

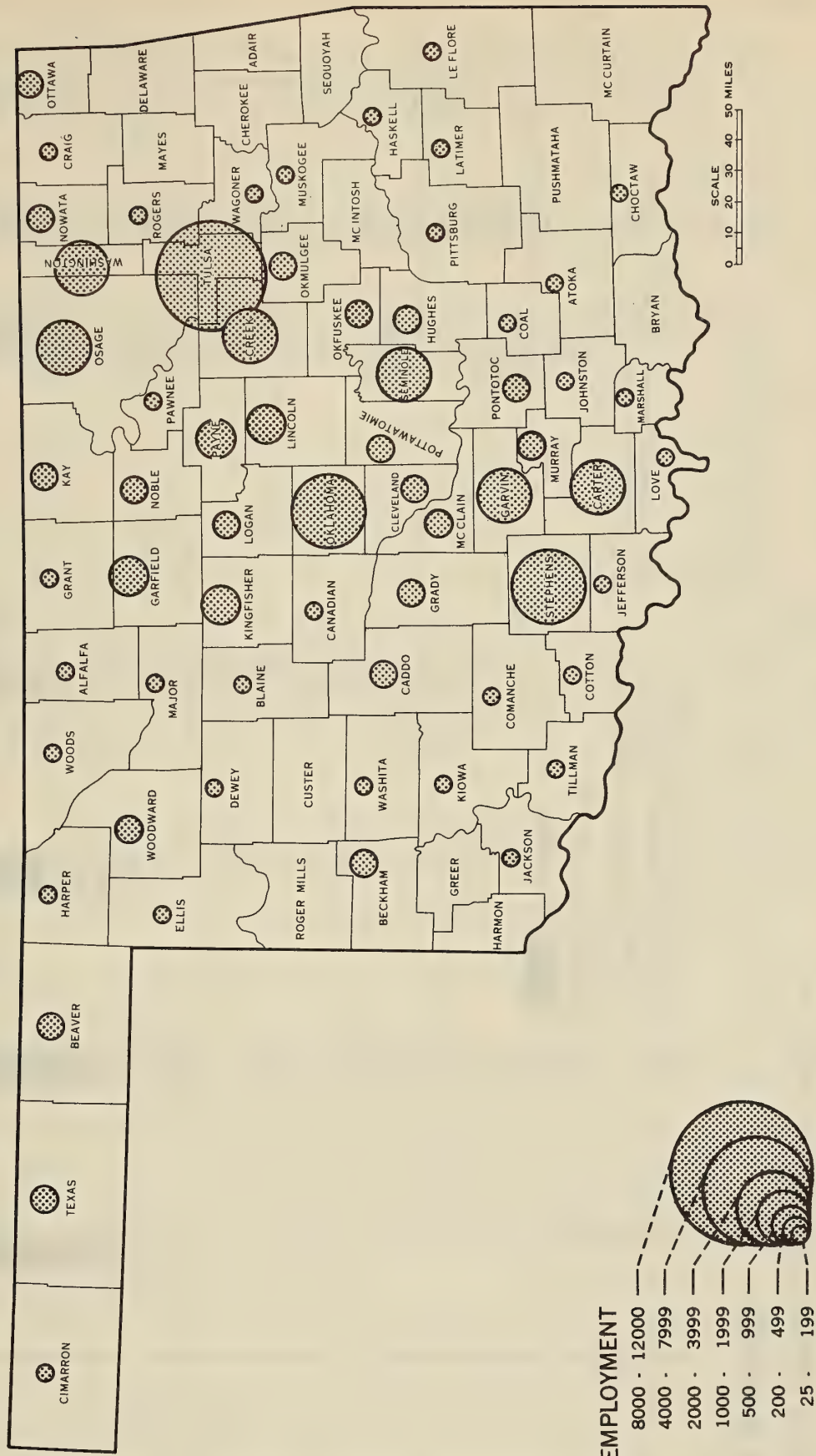
EMPLOYMENT IN MINING BY COUNTY: 1963

OKLAHOMA

RANK AMONG STATES

EMPLOYMENT - 6

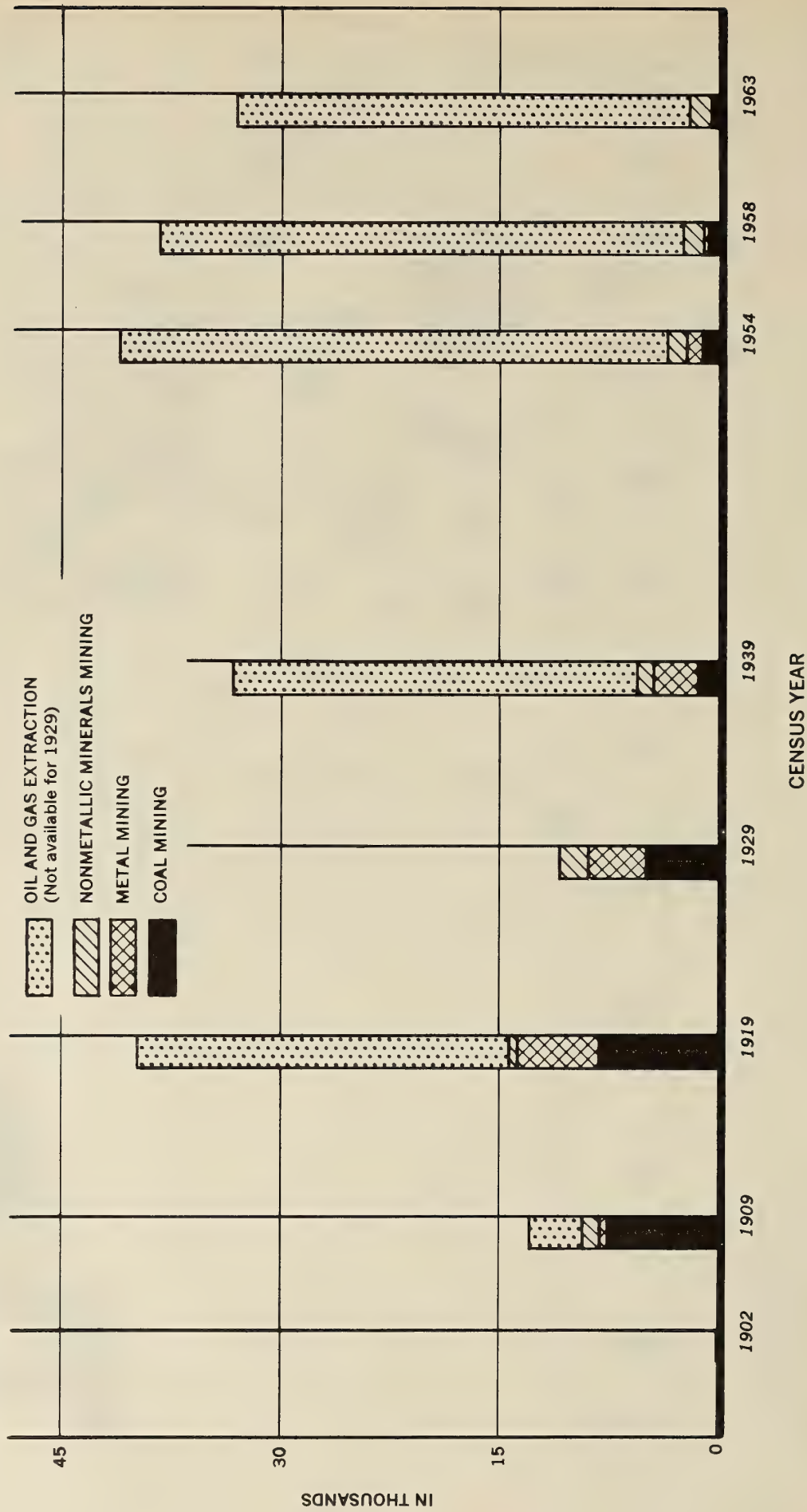
VALUE OF SHIPMENT - 4



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

OKLAHOMA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | | |
|--|---|---|-------------------------------|--|--|--|-------------------------|--|--------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | | |
| MINERAL INDUSTRIES ONLY: ² | | | | | | | | | | |
| 1963. | 2 519 | 300 | 32 898 | 199 897 | 21 313 | 41 636 | 105 849 | 805 927 | | |
| 1958. | 2 643 | 342 | 38 237 | 195 321 | 24 659 | 47 635 | 104 668 | 673 995 | | |
| 1954. | 2 610 | 393 | 40 859 | 176 929 | 30 294 | 61 057 | 115 138 | 584 366 | | |
| INCLUDING OPERATIONS IN MANUFACTURES: ¹ | | | | | | | | | | |
| ALL OPERATIONS: ¹ | | | | | | | | | | |
| 1963. | 2 547 | 301 | 33 054 | 200 596 | 21 467 | 41 938 | 106 541 | 810 187 | | |
| 1958. | 2 668 | 347 | 38 458 | 196 064 | 24 876 | 48 044 | 105 403 | 676 924 | | |
| 1954 ¹ | 2 627 | 399 | 41 100 | 177 623 | 30 534 | 61 532 | 115 830 | 586 635 | | |
| 1939 ² | 3 1 687 | (NA) | 33 312 | 52 548 | 26 188 | 46 857 | 33 892 | 173 015 | | |
| 1919 ⁴ | 1 964 | (NA) | 39 819 | 59 452 | 33 959 | (NA) | 46 894 | 192 429 | | |
| 1909 ⁴ | 888 | (NA) | 12 959 | 9 134 | 11 678 | (NA) | 7 790 | 18 025 | | |
| 1902. | 22 | (NA) | 147 | 77 | 5128 | (NA) | 65 | 151 | | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: ³ | | | | | | | | | | |
| 1963. | 187 | 29 | 2 045 | 9 647 | 1 726 | 3 760 | 7 834 | 24 809 | | |
| 1958. | 182 | 33 | 2 532 | 11 184 | 2 134 | 4 448 | 9 390 | 23 069 | | |
| 1954 ¹ | 238 | 44 | 3 595 | 13 284 | 3 371 | 7 273 | 12 238 | 26 301 | | |
| 1939 ² | 241 | (NA) | 5 753 | 5 940 | 5 213 | 10 297 | 5 050 | 11 780 | | |
| 1929 ⁶ | 220 | (NA) | 10 976 | 15 578 | 10 301 | (NA) | 13 641 | 25 211 | | |
| 1919 ⁴ | 286 | (NA) | 14 421 | 17 917 | 12 779 | (NA) | 16 145 | 25 467 | | |
| 1909 ⁷ | 166 | (NA) | 9 220 | 5 930 | 8 813 | (NA) | 5 515 | 6 526 | | |
| Kind of operation and year | Selected expenses | | | | | Value of shipments and receipts ⁹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation ⁸ (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (million) | | | Per production worker (1,000) | | |
| MINERAL INDUSTRIES ONLY: ¹ | | | | | | | | | | |
| 1963. | ¹⁰ 150 702 | ¹⁰ 101 747 | 127 960 | 58 161 | 1 039 504 | 204 993 | 28 786 | 1 351 | 3 033 | |
| 1958. | ¹⁰ 135 045 | ¹⁰ 50 538 | 126 847 | 60 422 | 860 630 | 186 217 | 31 635 | 1 283 | (NA) | |
| 1954. | 123 051 | 17 576 | 155 980 | 94 707 | 755 206 | 220 465 | 31 302 | 1 033 | 2 300 | |
| INCLUDING OPERATIONS IN MANUFACTURES: ¹ | | | | | | | | | | |
| ALL OPERATIONS: ¹ | | | | | | | | | | |
| 1963. | ¹⁰ 151 326 | ¹⁰ 101 747 | ¹¹ 127 960 | ¹² 58 161 | 1 044 388 | ¹² 204 993 | ¹² 28 786 | 1 351 | ¹²³ 033 | |
| 1958. | ¹⁰ 135 613 | ¹⁰ 50 538 | ¹¹ 126 847 | ¹² 60 422 | 864 106 | ¹² 186 238 | ¹² 31 638 | 1 272 | (NA) | |
| 1954 ¹ | ¹¹ 123 700 | 17 576 | ¹¹ 155 980 | ¹² 94 720 | 758 124 | ¹² 220 478 | ¹² 31 302 | 1 025 | ¹²² 301 | |
| 1939 ² | 21 909 | (NA) | 13 789 | (NA) | 208 713 | (NA) | 23 132 | 883 | 1 027 | |
| 1919 ⁴ | 60 560 | ¹³ 9 758 | 19 181 | (NA) | 281 928 | (NA) | ¹⁴ 7 656 | 225 | 449 | |
| 1909 ⁴ | 5 316 | ¹³ 131 | 2 166 | (NA) | 25 638 | (NA) | (NA) | (NA) | 95 | |
| 1902. | 32 | (NA) | 4 | (NA) | 187 | (NA) | (NA) | (NA) | (2) | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: ³ | | | | | | | | | | |
| 1963. | ¹⁰ 110 244 | (¹⁰) | ¹¹ 844 | ¹² 2 002 | 35 258 | ¹² 641 | ¹² 573 | 365 | ¹²¹ 61 | |
| 1958. | ¹⁰ 110 060 | (¹⁰) | ¹¹ 955 | ¹² 1 856 | 33 826 | ¹² 114 | ¹² 455 | 213 | (NA) | |
| 1954 ¹ | ¹¹ 8 536 | 6 864 | ¹¹ 797 | ¹² 2 089 | 42 673 | ¹² 1 914 | ¹² 477 | 142 | ¹²² 74 | |
| 1939 ² | 3 963 | (NA) | 177 | (NA) | 15 920 | (NA) | 470 | 90 | 92 | |
| 1929 ⁶ | 7 644 | (NA) | 284 | 950 | 33 139 | (NA) | 1 028 | 100 | 108 | |
| 1919 ⁴ | 8 479 | - | 485 | (NA) | 34 431 | (NA) | ¹⁴ 2 598 | 203 | 95 | |
| 1909 ⁷ | 1 364 | - | 63 | (NA) | 7 953 | (NA) | (NA) | (NA) | 34 | |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than one-half of the unit of measure specified.

¹Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

²Excludes data for dimension stone dressing plants, if any, operated in conjunction with 2 dimension granite quarries.

³Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for sand, gravel, common clay, and shale mining operations, and limestone quarries operated as parts of cement and lime plants. The value of products of such common sand, gravel, common clay, and shale mining operations in 1939 was \$613 thousand.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶Excludes data for common clay and shale mining operations. There were 9 such mines in 1939 with products valued at \$68 thousand.

⁷Includes data for 11 nonproducing crude petroleum and natural gas operations. For 1902, only one establishment was reported in the Crude Petroleum and Natural Gas Industry. Hence, the 1902 figures shown for "All operations" are approximately comparable to the figures for later years shown for "Excluding oil and gas extraction industries" See also footnote 4.

⁸For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants, but for 1954 includes the estimated value prior to processing of natural gas liquids contained in such gas.

⁹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of "Minerals received for preparation." For all other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁰Figures for minerals received for preparation in the Metal Mining Industries are included with those for supplies, purchases for resale, and purchased fuels and electric energy.

¹¹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for crushed and broken stone, and gravel, clay, and gypsum mining operations in manufacturing establishments, and for 1963 excludes data for dimension stone mining in manufacturing establishments.

¹³Represents natural gas purchased for resale.

¹⁴Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to only one percent of the total kwh equivalent of energy used; but for "Excluding oil and gas extraction industries" in 1929 it amounted to 9 percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 547 | 301 | 33 054 | 200 596 | 21 467 | 41 938 | 106 541 |
| | MINERAL INDUSTRIES | 2 519 | 300 | 32 898 | 199 897 | 21 313 | 41 636 | 105 849 |
| | INCLUDED IN MANUFACTURES | 28 | 1 | 156 | 1 699 | 154 | 302 | 692 |
| 10 | METAL MINING | 22 | 2 | 269 | 3 085 | 197 | 996 | 2 499 |
| 12 | BITUMINOUS COAL MINING | 26 | 6 | 355 | 1 907 | 325 | 567 | 1 698 |
| 1211 | BITUMINOUS COAL | 23 | 6 | 346 | | 316 | | |
| 13 | OIL AND GAS EXTRACTION | 2 360 | 272 | 31 009 | 190 949 | 19 741 | 38 178 | 98 707 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 1 603 | 106 | 18 625 | 126 772 | 9 822 | 18 694 | 51 580 |
| | CRUDE PETROLEUM | 1 459 | 101 | 17 924 | 122 063 | 9 428 | 17 846 | 49 485 |
| | NATURAL GAS | 144 | 5 | 701 | 4 709 | 394 | 848 | 2 095 |
| 1321 | NATURAL GAS LIQUIDS | 75 | 24 | 1 732 | 12 041 | 1 224 | 2 463 | 8 013 |
| 138 | OIL AND GAS FIELD SERVICES | 682 | 142 | 10 652 | 52 136 | 8 695 | 17 021 | 39 114 |
| 1381 | DRILLING OIL AND GAS WELLS | 303 | 89 | 5 654 | 28 720 | 5 100 | 10 376 | 24 861 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 28 | 7 | 675 | 3 761 | 510 | 1 278 | 2 583 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 351 | 46 | 4 323 | 19 655 | 3 085 | 5 367 | 11 670 |
| 14 | NONMETALLIC MINERALS MINING | 139 | 21 | 1 421 | 6 561 | 1 204 | 2 764 | 5 334 |
| | MINERAL INDUSTRIES | 111 | 20 | 1 265 | 5 862 | 1 050 | 2 462 | 4 642 |
| | INCLUDED IN MANUFACTURES | 28 | 1 | 156 | 1 699 | 154 | 302 | 692 |
| | DIMENSION STONE | 13 | - | 49 | 145 | 46 | 74 | 137 |
| | DIMENSION GRANITE | 5 | - | 42 | 134 | 40 | 68 | 127 |
| 1421 | CRUSHED AND BROKEN STONE | 37 | 15 | 798 | 3 856 | 671 | 1 530 | 3 150 |
| | MINERAL INDUSTRY | 32 | 15 | 766 | 3 681 | 639 | 1 466 | 2 975 |
| | INCLUDED IN MANUFACTURES | 5 | - | 32 | 175 | 32 | 64 | 175 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY | 28 | 13 | 678 | 3 374 | 558 | 1 267 | 2 700 |
| | MINERAL SUBINDUSTRY | 23 | 13 | 646 | 3 199 | 526 | 1 203 | 2 525 |
| | INCLUDED IN MANUFACTURES | 5 | - | 32 | 175 | 32 | 64 | 175 |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY | 9 | 2 | 120 | 482 | 113 | 263 | 450 |
| 1441 | SAND AND GRAVEL | 61 | 5 | 406 | 1 697 | 355 | 887 | 1 463 |
| | MINERAL INDUSTRY | 56 | 5 | 385 | 1 613 | 334 | 845 | 1 379 |
| | INCLUDED IN MANUFACTURES | 5 | - | 21 | 84 | 21 | 42 | 84 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 5 | - | 26 | 125 | 25 | 63 | 125 |
| | CLAY AND RELATED MINERALS, N.E.C. | 16 | - | 71 | 326 | 70 | 150 | 326 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: GYPSUM | 7 | 1 | 66 | 302 | 58 | 115 | 245 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 810 187 | 2 439 200 | 1 044 388 | (NA) | 3 458 | 2 676 924 |
| | MINERAL INDUSTRIES | 805 927 | 438 570 | 1 039 504 | 204 993 | 3 237 | 2 673 995 |
| | INCLUDED IN MANUFACTURES | 4 260 | 2 630 | 14 884 | (NA) | 221 | 2 929 |
| 10 | METAL MINING | 5 543 | 5 872 | 10 814 | 601 | 1 083 | 10 423 |
| 12 | BITUMINOUS COAL MINING | 4 165 | 2 195 | 5 853 | 507 | 807 | 8 537 |
| 1211 | BITUMINOUS COAL | | | | | | |
| 13 | OIL AND GAS EXTRACTION | 785 378 | 426 104 | 1 009 130 | 202 352 | 35 926 | 653 855 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 627 365 | 254 198 | 705 537 | 176 026 | 22 933 | 523 960 |
| | CRUDE PETROLEUM | 561 007 | 238 209 | 631 994 | 167 222 | 22 414 | 507 573 |
| | NATURAL GAS | 66 358 | 15 989 | 73 543 | 8 804 | 519 | 16 387 |
| 1321 | NATURAL GAS LIQUIDS | 69 967 | 117 453 | 176 720 | 10 700 | 2 283 | 49 926 |
| 138 | OIL AND GAS FIELD SERVICES | 88 046 | 54 453 | 126 873 | 15 626 | 10 710 | 79 969 |
| 1381 | DRILLING OIL AND GAS WELLS | 53 974 | 41 897 | 84 253 | 11 618 | 6 595 | 55 596 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 7 407 | 2 788 | 9 060 | 1 135 | 381 | 2 686 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 26 665 | 9 768 | 33 560 | 2 873 | 3 734 | 21 687 |
| 14 | NONMETALLIC MINERALS MINING | 19 266 | 27 224 | 24 444 | 2 046 | 3 449 | 3 12 646 |
| | MINERAL INDUSTRIES | 15 006 | 6 594 | 19 560 | 2 040 | 3 228 | 3 9 717 |
| | INCLUDED IN MANUFACTURES | 4 260 | 2 630 | 14 884 | 6 | 221 | 2 929 |
| | DIMENSION STONE | 660 | 142 | 773 | 29 | 97 | 447 |
| | DIMENSION GRANITE | 615 | 110 | 701 | 24 | (NA) | (NA) |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| 14 | NONMETALLIC MINERALS MINING--CONTINUED | | | | | | |
| 1421 | CRUSHED AND BROKEN STONE | 10 325 | ² 4 332 | ¹ 3 524 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 8 655 | 4 047 | 11 569 | 1 133 | 780 | 5 362 |
| | INCLUDED IN MANUFACTURES | 1 670 | ² 285 | ¹ 1 955 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY | 9 009 | ² 3 303 | ¹ 11 367 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY | 7 339 | 3 018 | 9 412 | 945 | 757 | 4 923 |
| | INCLUDED IN MANUFACTURES | 1 670 | ² 285 | ¹ 1 955 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY | 1 316 | 1 029 | 2 157 | 188 | (NA) | (NA) |
| 1441 | SAND AND GRAVEL | 5 510 | ² 2 029 | ¹ 6 772 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY | 5 038 | 1 976 | 6 247 | 767 | 333 | 3 278 |
| | INCLUDED IN MANUFACTURES | 472 | ² 53 | ¹ 525 | (NA) | (NA) | (NA) |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 417 | 282 | 616 | 83 | (NA) | (NA) |
| | CLAY AND RELATED MINERALS, N.E.C. . . | 1 029 | ² 450 | ¹ 1 397 | 82 | ¹ 62 | 427 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: GYPSUM | 1 707 | (D) | 1 937 | (D) | ¹ 66 | 1 566 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Includes figures for one establishment classified for 1963 in the manufacturing industries.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|--------------------|--|---|-------------------------------|--|----------------------|--|---|--|---------------------|--|--------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and pur- chased fuels and electric energy (\$1,000) | Minerals received for prepara- tion (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other con- struction, machinery, and equipment ² (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 438 570 | 252 449 | (³) | 127 960 | 58 161 | 204 993 | 98 817 | 106 176 | (x) | (x) | (x) | (x) |
| | BITUMINOUS COAL MINING: | | | | | | | | | | | | |
| 1211 | BITUMINOUS COAL | 2 195 | 1 375 | - | 247 | 573 | 507 | 37 | 470 | 1 015 | 5 778 | - | - |
| 13 | OIL AND GAS EXTRACTION. . . . | 426 104 | 141 082 | 101 747 | 127 116 | 56 159 | 202 352 | 98 715 | 103 637 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 254 198 | 99 186 | - | 114 338 | 40 674 | 176 026 | 96 681 | 79 345 | (x) | 699 964 | (x) | 7 202 |
| | CRUDE PETROLEUM | 238 209 | 93 925 | - | 105 230 | 39 054 | 167 222 | 90 033 | 77 189 | ⁴ 191 634 | 536 671 | ⁴ 8 167 | 23 247 |
| | NATURAL GAS | 15 989 | 5 261 | - | 9 108 | 1 620 | 8 804 | 6 648 | 2 156 | ⁵ 84 170 | 56 010 | ⁵ 734 020 | 91 238 |
| 1321 | NATURAL GAS LIQUIDS | 117 453 | 6 159 | 101 747 | 5 937 | 3 610 | 10 700 | - | 10 700 | ⁶ 32 592 | 60 663 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 54 453 | 35 737 | - | 6 841 | 11 875 | 15 626 | 2 034 | 13 592 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 41 897 | 27 904 | - | 5 612 | 8 381 | 11 618 | 2 030 | 9 588 | (x) | ⁷ 78 815 | (x) | (⁷) |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 2 788 | 1 492 | - | 372 | 924 | 1 135 | - | 1 135 | (x) | (D) | (x) | (D) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 9 768 | 6 341 | - | 857 | 2 570 | 2 873 | 4 | 2 869 | (x) | (D) | (x) | (D) |
| 14 | NONMETALLIC MINERALS MINING . | 6 594 | 4 856 | - | 405 | 1 333 | 2 040 | 37 | 2 003 | (x) | (x) | (x) | (x) |
| 142 | CRUSHED AND BROKEN STONE. . | 4 047 | 3 073 | - | 221 | 753 | 1 133 | 21 | 1 112 | 10 963 | 11 245 | ⁸ 1 739 | ⁸ 1 820 |
| | CRUSHED AND BROKEN LIMESTONE. | 3 018 | 2 244 | - | 147 | 627 | 945 | 14 | 931 | 8 784 | ⁹ 10 986 | ⁸ 1 738 | (⁹) |
| 144 | SAND AND GRAVEL | 1 976 | 1 310 | - | 169 | 497 | 767 | 8 | 759 | 5 046 | ¹⁰ 6 704 | 274 | (¹⁰) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁵Represents millions of cubic feet of natural gas shipped.⁶Represents net shipments of natural gas liquids only. Quantity is in thousands of barrels.⁷Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specific industry.⁸Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁹Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 8.¹⁰Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 833 | 1 753 | 1 582 | 20 | 35 | 1 527 | 93 | 8 | 71 | 14 | 78 | 80 |
| | NUMBER OF EMPLOYEES..... | 16 806 | 16 623 | 13 739 | 100 | 113 | 13 526 | 1 389 | (D) | 1 063 | (D) | 1 495 | 183 |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 17 751 | 7 17 887 | 6 29 704 | 829 | 1 346 | 6 27 529 | 17 643 | (D) | 15 316 | (D) | 70 540 | (²) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 678 | 1 601 | 1 527 | - | - | 1 529 | - | - | - | - | 74 | 77 |
| | NUMBER OF EMPLOYEES..... | 15 059 | 14 912 | (D) | - | - | (D) | - | - | - | - | (D) | 147 |
| | VALUE ADDED IN MINING.....\$1,000.. | 697 332 | 697 460 | (D) | - | - | (D) | - | - | - | - | (D) | (²) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 603 | 1 527 | 1 527 | - | - | 1 527 | - | - | - | - | - | 76 |
| | NUMBER OF EMPLOYEES..... | 13 672 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 627 365 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 75 | 74 | - | - | - | - | - | - | - | - | 74 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 387 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 69 967 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 110 | 108 | 28 | - | 28 | - | 78 | - | 64 | 14 | 2 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 188 | (D) | 97 | - | 97 | - | 1 013 | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 14 999 | (D) | 1 302 | - | 1 302 | - | 13 216 | - | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 32 | 31 | 4 | - | 4 | - | 26 | - | 26 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | 717 | (D) | (D) | - | (D) | - | 639 | - | 639 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 655 | (D) | (D) | - | (D) | - | 7 963 | - | 7 963 | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 56 | 55 | 11 | - | 11 | - | 44 | - | 30 | 14 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 385 | (D) | (D) | - | (D) | - | 338 | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 038 | (D) | (D) | - | (D) | - | 4 750 | - | (D) | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|---|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 547 | 301 | 33 054 | 200 596 | 21 467 | 41 938 | 106 541 | 810 187 | 439 200 | 1 044 388 | (NA) | 38 458 | 676 924 |
| | MINERAL INDUSTRIES | 2 519 | 300 | 32 893 | 199 897 | 21 313 | 41 636 | 105 849 | 805 927 | 438 570 | 1 039 504 | (NA) | 38 237 | 673 995 |
| | INCLUDED IN MANUFACTURES ² | 28 | 1 | 156 | 699 | 154 | 302 | 692 | 4 260 | 630 | 4 884 | 83 | 221 | 2 929 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALFALFA COUNTY, TOTAL | 45 | 2 | 72 | 457 | 60 | 122 | 375 | 3 105 | 2 055 | 4 211 | 949 | 148 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 33 | 1 | 35 | 243 | 32 | 60 | 226 | 2 358 | 1 657 | 3 154 | 861 | 30 | (NA) |
| | BEAVER COUNTY, TOTAL | 132 | 3 | 442 | 2 736 | 360 | 745 | 2 124 | 32 934 | 23 161 | 46 183 | 9 912 | 370 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 132 | 3 | 442 | 2 736 | 360 | 745 | 2 124 | 32 934 | 23 161 | 46 183 | 9 912 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 72 | - | 146 | 940 | 93 | 180 | 568 | 26 443 | 12 339 | 29 995 | 8 787 | 55 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 4 | 1 | 48 | 352 | 40 | 77 | 295 | 3 474 | 7 841 | 10 943 | 372 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 56 | 2 | 248 | 1 444 | 227 | 488 | 1 261 | 3 017 | 2 981 | 5 245 | 753 | (NA) | (NA) |
| | BECKHAM COUNTY, TOTAL | 23 | 3 | 200 | 1 360 | 136 | 313 | 823 | 14 700 | 20 490 | 34 286 | 904 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 23 | 3 | 195 | 1 337 | 136 | 313 | 823 | 14 700 | 20 490 | 34 286 | 904 | 364 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | 1 | 68 | 403 | 57 | 99 | 312 | 744 | 322 | 964 | 102 | (NA) | (NA) |
| | BLAINE COUNTY, TOTAL | 30 | 1 | 68 | 427 | 62 | 138 | 356 | 3 731 | 3 439 | 2 922 | 4 248 | 81 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 14 | - | 7 | 49 | 5 | 9 | 26 | 3 168 | 1 734 | 1 630 | 3 272 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 13 | 1 | 53 | 339 | 50 | 117 | 304 | 501 | 741 | 1 101 | 141 | (NA) | (NA) |
| | BRYAN COUNTY, TOTAL | 26 | - | 20 | 108 | 19 | 42 | 102 | 2 626 | 1 224 | 3 018 | 832 | 24 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 13 | - | 2 | 17 | 2 | 4 | 17 | 2 321 | 949 | 2 443 | 827 | (NA) | (NA) |
| | CADDO COUNTY, TOTAL | 84 | 3 | 289 | 1 433 | 225 | 468 | 1 059 | 9 260 | 3 470 | 11 388 | 1 342 | 450 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 60 | 2 | 200 | 1 140 | 149 | 314 | 838 | 8 582 | 3 075 | 10 353 | 1 304 | 276 | (NA) |
| | CANADIAN COUNTY, TOTAL | 27 | - | 46 | 232 | 37 | 75 | 175 | 1 375 | 1 727 | 998 | 2 104 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | - | 39 | 205 | 33 | 69 | 166 | 227 | 438 | 646 | 19 | (NA) | (NA) |
| | CARTER COUNTY, TOTAL | 252 | 20 | 1 559 | 9 233 | 1 219 | 2 408 | 6 642 | 43 512 | 23 483 | 52 219 | 14 776 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 252 | 20 | 1 559 | 9 233 | 1 219 | 2 408 | 6 642 | 43 512 | 23 483 | 52 219 | 14 776 | 2 206 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 171 | 11 | 962 | 6 292 | 708 | 1 393 | 4 137 | 35 670 | 16 569 | 39 051 | 13 188 | 1 362 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 6 | 1 | 78 | 549 | 65 | 145 | 433 | 3 004 | 4 185 | 6 230 | 959 | 155 | 4 149 |
| 138 | OIL AND GAS FIELD SERVICES | 75 | 8 | 519 | 2 392 | 446 | 870 | 2 072 | 4 838 | 2 729 | 6 938 | 629 | 689 | (NA) |
| | CIMARRON COUNTY, TOTAL | 37 | - | 43 | 222 | 41 | 64 | 205 | 3 561 | 1 354 | 3 395 | 1 520 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 37 | - | 43 | 222 | 41 | 64 | 205 | 3 561 | 1 354 | 3 395 | 1 520 | 75 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 21 | - | 13 | 67 | 12 | 22 | 53 | 3 228 | 893 | 2 611 | 1 510 | 40 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | - | 30 | 155 | 29 | 42 | 152 | 333 | 461 | 784 | 10 | (NA) | (NA) |
| | CLEVELAND COUNTY, TOTAL | 104 | 4 | 343 | 2 037 | 303 | 667 | 1 715 | 12 529 | 7 041 | 16 220 | 3 350 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 104 | 4 | 343 | 2 037 | 303 | 667 | 1 715 | 12 529 | 7 041 | 16 220 | 3 350 | 584 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 64 | - | 86 | 525 | 75 | 143 | 437 | 7 810 | 4 740 | 9 473 | 3 077 | 175 | (NA) |
| | COAL COUNTY, TOTAL | 37 | 1 | 68 | 409 | 60 | 125 | 329 | 2 676 | 988 | 3 188 | 476 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 37 | 1 | 68 | 409 | 60 | 125 | 329 | 2 676 | 988 | 3 188 | 476 | 21 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 25 | - | 22 | 157 | 16 | 26 | 93 | 2 323 | 764 | 2 687 | 400 | 10 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 12 | 1 | 46 | 252 | 44 | 99 | 236 | 353 | 224 | 501 | 76 | (NA) | (NA) |
| | COMANCHE COUNTY, TOTAL | 29 | 1 | 134 | 734 | 132 | 316 | 723 | 3 937 | 431 | 4 131 | 237 | 190 | (NA) |
| | COTTON COUNTY, TOTAL | 44 | - | 93 | 415 | 75 | 130 | 295 | 4 336 | 1 337 | 4 697 | 976 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 36 | - | 65 | 321 | 49 | 83 | 206 | 4 133 | 1 208 | 4 387 | 954 | 71 | (NA) |
| | CRAIG COUNTY, TOTAL | 14 | 3 | 113 | 513 | 105 | 238 | 492 | 1 384 | 678 | 1 904 | 158 | 33 | (NA) |
| 12 | BITUMINOUS COAL MINING | 7 | 2 | 86 | 404 | 82 | 179 | 387 | 772 | 501 | 1 159 | 114 | (NA) | (NA) |
| | CREEK COUNTY, TOTAL | 277 | 17 | 1 349 | 6 407 | 1 116 | 2 119 | 4 817 | 30 196 | 13 065 | 37 625 | 5 636 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 199 | 7 | 753 | 3 758 | 559 | 1 023 | 2 417 | 24 151 | 9 439 | 28 878 | 4 712 | 1 025 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 73 | 7 | 481 | 1 976 | 455 | 894 | 1 803 | 3 882 | 2 243 | 5 310 | 815 | 348 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|------------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 13 131 138 | CUSTER COUNTY, TOTAL | 20 | - | 12 | 62 | 12 | 23 | 59 | 2 316 | 1 023 | 1 735 | 1 604 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 20 | - | 12 | 62 | 12 | 23 | 59 | 2 316 | 1 023 | 1 735 | 1 604 | 21 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 11 | - | 3 | 20 | 3 | 5 | 18 | 2 020 | 680 | 1 186 | 1 514 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 9 | - | 9 | 42 | 9 | 18 | 41 | 296 | 343 | 549 | 90 | (NA) | (NA) |
| 13 131 | DEWEY COUNTY, TOTAL | 43 | 1 | 76 | 481 | 67 | 133 | 397 | 8 696 | 5 309 | 7 943 | 6 062 | 23 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 19 | - | 8 | 61 | 8 | 13 | 51 | 6 977 | 3 705 | 4 897 | 5 785 | (NA) | (NA) |
| | ELLIS COUNTY, TOTAL | 36 | 1 | 84 | 581 | 67 | 148 | 381 | 1 696 | 1 522 | 1 846 | 1 372 | 170 | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 36 | 1 | 84 | 581 | 67 | 148 | 381 | 1 696 | 1 522 | 1 846 | 1 372 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 17 | 1 | 22 | 209 | 11 | 23 | 76 | 1 120 | 783 | 640 | 1 263 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 19 | - | 62 | 372 | 56 | 125 | 305 | 576 | 739 | 1 206 | 109 | (NA) | (NA) |
| | GARFIELD COUNTY, TOTAL | 136 | 10 | 552 | 3 476 | 442 | 931 | 2 519 | 19 589 | 13 839 | 18 344 | 15 084 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 75 | 4 | 216 | 1 405 | 139 | 242 | 702 | 13 718 | 7 503 | 8 959 | 12 262 | 202 | (NA) |
| | GARVIN COUNTY, TOTAL | 207 | 19 | 1 539 | 8 794 | 1 263 | 2 317 | 6 794 | 78 732 | 40 076 | 109 473 | 9 335 | 2 071 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 132 | CRUDE PETROLEUM AND NATURAL GAS . . | 123 | 4 | 435 | 2 844 | 320 | 616 | 1 861 | 51 641 | 17 684 | 61 790 | 7 535 | 949 | (NA) |
| | NATURAL GAS LIQUIDS | 6 | 2 | 251 | 1 760 | 207 | 429 | 1 412 | 18 672 | 17 858 | 35 938 | 592 | (NA) | (NA) |
| | GRADY COUNTY, TOTAL | 83 | 2 | 291 | 1 869 | 230 | 445 | 1 329 | 17 434 | 7 286 | 20 152 | 4 568 | 425 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 58 | 2 | 188 | 1 285 | 139 | 268 | 847 | 13 603 | 4 609 | 14 176 | 4 036 | 277 | (NA) |
| | GRANT COUNTY, TOTAL | 88 | 2 | 179 | 961 | 141 | 285 | 718 | 4 617 | 4 411 | 6 847 | 2 181 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 88 | 2 | 179 | 961 | 141 | 285 | 718 | 4 617 | 4 411 | 6 847 | 2 181 | 181 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 63 | 1 | 98 | 531 | 71 | 141 | 366 | 3 040 | 2 204 | 4 072 | 1 172 | 78 | (NA) |
| 13 131 | HARPER COUNTY, TOTAL | 67 | 2 | 108 | 680 | 96 | 191 | 573 | 12 555 | 6 468 | 17 168 | 1 855 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 67 | 2 | 108 | 680 | 96 | 191 | 573 | 12 555 | 6 468 | 17 168 | 1 855 | 339 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 45 | - | 42 | 239 | 33 | 54 | 176 | 8 687 | 4 743 | 11 857 | 1 573 | 26 | (NA) |
| | HASKELL COUNTY, TOTAL | 28 | 2 | 140 | 889 | 128 | 274 | 764 | 3 568 | 2 117 | 4 323 | 1 362 | 106 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 12 | - | 7 | 29 | 6 | 11 | 18 | 1 309 | 394 | 678 | 1 025 | (NA) | (NA) |
| | HUGHES COUNTY, TOTAL | 136 | - | 243 | 1 116 | 203 | 393 | 1 002 | 5 999 | 2 994 | 7 380 | 1 613 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 98 | - | 169 | 784 | 134 | 256 | 702 | 5 323 | 2 514 | 6 311 | 1 526 | 201 | (NA) |
| | JACKSON COUNTY, TOTAL | 24 | - | 29 | 51 | 26 | 42 | 41 | 912 | 323 | 1 078 | 157 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 14 | 36 | 13 | 20 | 27 | 895 | 243 | 991 | 147 | (NA) | (NA) |
| 13 131 | JEFFERSON COUNTY, TOTAL | 55 | - | 85 | 293 | 63 | 113 | 241 | 3 199 | 1 324 | 3 667 | 856 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 55 | - | 85 | 293 | 63 | 113 | 241 | 3 199 | 1 324 | 3 667 | 856 | 81 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 47 | - | 61 | 245 | 52 | 97 | 197 | 2 969 | 1 148 | 3 357 | 760 | 58 | (NA) |
| | JOHNSTON COUNTY, TOTAL | 9 | 4 | 128 | 654 | 94 | 175 | 415 | 1 892 | 552 | 2 069 | 375 | 102 | (NA) |
| 13 138 | KAY COUNTY, TOTAL | 130 | 2 | 294 | 1 406 | 248 | 474 | 1 110 | 8 775 | 24 937 | 31 757 | 1 955 | 557 | (NA) |
| | OIL AND GAS EXTRACTION | 125 | 2 | 285 | 1 353 | 240 | 455 | 1 064 | 8 665 | 24 816 | 31 552 | 1 929 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 44 | - | 91 | 394 | 81 | 169 | 355 | 998 | 629 | 1 398 | 229 | (NA) | (NA) |
| | KINGFISHER COUNTY, TOTAL | 133 | 12 | 791 | 4 550 | 674 | 1 325 | 3 623 | 33 834 | 24 606 | 44 532 | 13 908 | 116 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 68 | 2 | 214 | 1 535 | 169 | 331 | 1 175 | 23 619 | 14 799 | 29 407 | 9 011 | (NA) | (NA) |
| | KIOWA COUNTY, TOTAL | 21 | 1 | 78 | 291 | 67 | 100 | 226 | 999 | 567 | 1 303 | 263 | 156 | (NA) |
| | NONMETALLIC MINERALS MINING | 3 | 1 | 68 | 253 | 58 | 82 | 197 | 516 | 481 | 873 | 124 | (NA) | (NA) |
| 13 138 | LATIMER COUNTY, TOTAL | 25 | 1 | 127 | 811 | 116 | 278 | 724 | 3 051 | 3 991 | 2 647 | 4 395 | 20 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | OIL AND GAS FIELD SERVICES | 14 | 1 | 114 | 711 | 103 | 251 | 624 | 1 585 | 1 203 | 2 557 | 231 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-------------------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 131 138 | LE FLORE COUNTY, TOTAL | 31 | 1 | 99 | 516 | 93 | 214 | 482 | 1 926 | 1 728 | 2 436 | 1 218 | 245 | (NA) |
| | OIL AND GAS EXTRACTION | 26 | 1 | 70 | 414 | 69 | 169 | 398 | 1 771 | 1 643 | 2 211 | 1 203 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 11 | - | 18 | 90 | 18 | 40 | 90 | 1 138 | 1 152 | 1 128 | 1 162 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 15 | 1 | 52 | 324 | 51 | 129 | 308 | 633 | 491 | 1 083 | 41 | (NA) | (NA) |
| 13 131 132 138 | LINCOLN COUNTY, TOTAL | 180 | 4 | 531 | 2 602 | 454 | 840 | 2 085 | 18 439 | 8 231 | 24 112 | 2 558 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 180 | 4 | 531 | 2 602 | 454 | 840 | 2 085 | 18 439 | 8 231 | 24 112 | 2 558 | 646 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 134 | 1 | 309 | 1 600 | 245 | 457 | 1 179 | 15 546 | 5 817 | 19 101 | 2 262 | 403 | (NA) |
| | NATURAL GAS LIQUIDS | 3 | 1 | 38 | 250 | 37 | 74 | 240 | 823 | 1 288 | 1 980 | 131 | 68 | 1 602 |
| 13 131 | OIL AND GAS FIELD SERVICES | 43 | 2 | 184 | 752 | 172 | 309 | 666 | 2 070 | 1 126 | 3 031 | 165 | 175 | (NA) |
| | LOGAN COUNTY, TOTAL | 118 | 1 | 214 | 1 066 | 180 | 356 | 833 | 6 486 | 3 606 | 7 688 | 2 404 | 453 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 82 | - | 95 | 469 | 82 | 134 | 346 | 4 475 | 2 432 | 4 824 | 2 083 | 984 | (NA) |
| 13 131 | LOVE COUNTY, TOTAL | 43 | 2 | 162 | 893 | 133 | 271 | 693 | 6 038 | 7 085 | 11 401 | 1 722 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 43 | 2 | 162 | 893 | 133 | 271 | 693 | 6 038 | 7 085 | 11 401 | 1 722 | 120 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 28 | - | 35 | 260 | 22 | 43 | 102 | 4 866 | 3 253 | 6 882 | 1 237 | 15 | (NA) |
| | MCCLAIN COUNTY, TOTAL | 107 | 7 | 417 | 2 170 | 383 | 689 | 1 911 | 18 258 | 11 185 | 25 530 | 3 913 | 809 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 62 | 2 | 110 | 574 | 97 | 159 | 460 | 14 368 | 7 244 | 18 175 | 3 437 | 234 | (NA) |
| | MAJOR COUNTY, TOTAL | 68 | 3 | 169 | 1 109 | 145 | 307 | 885 | 14 436 | 6 925 | 15 548 | 5 813 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 37 | 1 | 46 | 343 | 29 | 64 | 160 | 11 816 | 4 308 | 10 504 | 5 620 | 33 | (NA) |
| | MARSHALL COUNTY, TOTAL | 39 | 1 | 99 | 649 | 83 | 184 | 523 | 6 016 | 3 390 | 7 771 | 1 635 | 206 | (NA) |
| | OIL AND GAS EXTRACTION | 39 | 1 | 99 | 649 | 83 | 184 | 523 | 6 016 | 3 390 | 7 771 | 1 635 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 24 | - | 36 | 235 | 25 | 49 | 143 | 4 657 | 2 023 | 5 189 | 1 491 | 132 | (NA) |
| 13 131 | MURRAY COUNTY, TOTAL | 34 | 2 | 204 | 1 029 | 189 | 447 | 945 | 3 788 | 1 533 | 4 311 | 1 010 | 158 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 16 | - | 35 | 204 | 32 | 59 | 187 | 1 362 | 740 | 1 320 | 782 | (NA) | (NA) |
| | MUSKOGEE COUNTY, TOTAL | 56 | 1 | 160 | 711 | 144 | 291 | 601 | 5 231 | 1 980 | 5 836 | 1 375 | 108 | (NA) |
| 13 131 14 | OIL AND GAS EXTRACTION | 53 | - | 105 | 415 | 93 | 162 | 330 | 4 676 | 1 486 | 4 858 | 1 304 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 41 | - | 92 | 358 | 80 | 150 | 277 | 4 447 | 1 383 | 4 534 | 1 296 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 3 | 1 | 55 | 296 | 51 | 129 | 271 | 555 | 494 | 978 | 71 | (NA) | (NA) |
| | NOBLE COUNTY, TOTAL | 114 | 1 | 239 | 1 190 | 204 | 389 | 969 | 6 018 | 2 765 | 7 698 | 1 085 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 114 | 1 | 239 | 1 190 | 204 | 389 | 969 | 6 018 | 2 765 | 7 698 | 1 085 | 385 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 80 | - | 108 | 592 | 87 | 162 | 431 | 5 009 | 2 324 | 6 319 | 1 014 | 166 | (NA) |
| | NOWATA COUNTY, TOTAL | 65 | 2 | 296 | 1 535 | 232 | 475 | 1 132 | 4 040 | 2 198 | 5 816 | 422 | 592 | (NA) |
| | OIL AND GAS EXTRACTION | 65 | 2 | 287 | 1 497 | 232 | 475 | 1 132 | 4 040 | 2 198 | 5 816 | 422 | (NA) | (NA) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 50 | 2 | 228 | 1 255 | 176 | 357 | 896 | 3 692 | 2 032 | 5 356 | 368 | 512 | (NA) |
| | OKFUSKEE COUNTY, TOTAL | 147 | 1 | 306 | 1 443 | 255 | 505 | 1 147 | 6 915 | 4 042 | 9 203 | 1 754 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 147 | 1 | 306 | 1 443 | 255 | 505 | 1 147 | 6 915 | 4 042 | 9 203 | 1 754 | 303 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 113 | - | 195 | 910 | 160 | 296 | 714 | 5 953 | 3 035 | 7 419 | 1 569 | 207 | (NA) |
| 13 131 14 | OKLAHOMA COUNTY, TOTAL | 263 | 42 | 3 876 | 28 026 | 2 009 | 4 162 | 11 852 | 44 925 | 19 628 | 57 698 | 6 855 | 4 388 | (NA) |
| | OIL AND GAS EXTRACTION | 256 | 42 | 2 870 | 18 952 | 1 962 | 4 069 | 11 579 | 44 489 | 19 301 | 57 008 | 6 782 | 4 290 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 158 | 22 | 1 781 | 13 162 | 1 045 | 2 149 | 6 923 | 32 230 | 8 307 | 35 591 | 4 946 | 2 995 | (NA) |
| | NONMETALLIC MINERALS MINING | 7 | - | 53 | 291 | 47 | 93 | 273 | 436 | 327 | 690 | 73 | (NA) | (NA) |
| 13 131 | OKMULGEE COUNTY, TOTAL | 159 | 1 | 308 | 1 049 | 263 | 520 | 857 | 4 562 | 1 606 | 4 786 | 1 382 | 488 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 120 | 1 | 218 | 812 | 182 | 352 | 644 | 3 975 | 1 171 | 3 897 | 1 249 | 327 | (NA) |
| | OSAGE COUNTY, TOTAL | 315 | 13 | 1 498 | 7 609 | 1 287 | 2 345 | 5 941 | 54 035 | 17 587 | 63 002 | 8 620 | 2 132 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 223 | 8 | 978 | 5 473 | 790 | 1 536 | 3 951 | 49 897 | 15 506 | 57 507 | 7 896 | 1 429 | (NA) |
| | OTTAWA COUNTY, TOTAL | 26 | 2 | 282 | 1 184 | 210 | 437 | 807 | 1 726 | 3 761 | 5 369 | 118 | 280 | 1 949 |
| | METAL MINING | 22 | 2 | 212 | 839 | 196 | 408 | 754 | 1 259 | 3 629 | 4 805 | 83 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-------------------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 13 131 | PAWNEE COUNTY, TOTAL | 104 | 1 | 189 | 629 | 149 | 256 | 502 | 3 613 | 1 799 | 4 235 | 1 177 | 217 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 70 | - | 115 | 454 | 94 | 154 | 341 | 3 222 | 1 543 | 3 662 | 1 103 | 166 | (NA) |
| 13 131 138 | PAYNE COUNTY, TOTAL. | 124 | 6 | 501 | 2 385 | 428 | 831 | 1 979 | 7 547 | 4 116 | 10 302 | 1 361 | 502 | (NA) |
| | OIL AND GAS EXTRACTION | 124 | 6 | 501 | 2 385 | 428 | 831 | 1 979 | 7 547 | 4 116 | 10 302 | 1 361 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 91 | 1 | 198 | 864 | 155 | 280 | 657 | 4 717 | 2 380 | 6 252 | 845 | 252 | (NA) |
| 13 138 | OIL AND GAS FIELD SERVICES | 33 | 5 | 303 | 1 521 | 273 | 551 | 1 322 | 2 830 | 1 736 | 4 050 | 516 | 228 | (NA) |
| | PITTSBURG COUNTY, TOTAL. | 26 | 2 | 176 | 945 | 164 | 302 | 878 | 1 744 | 807 | 1 393 | 1 158 | 299 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 138 | OIL AND GAS FIELD SERVICES | 11 | 1 | 61 | 357 | 59 | 142 | 345 | 420 | 354 | 658 | 116 | (NA) | (NA) |
| | PONTOTOC COUNTY, TOTAL | 148 | 5 | 440 | 1 806 | 358 | 686 | 1 382 | 8 713 | 3 742 | 10 291 | 2 164 | 614 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 138 | CRUDE PETROLEUM AND NATURAL GAS. . | 108 | 1 | 256 | 1 213 | 206 | 400 | 893 | 7 393 | 3 102 | 8 562 | 1 933 | 386 | (NA) |
| | OIL AND GAS FIELD SERVICES | 35 | 3 | 131 | 395 | 108 | 187 | 323 | 779 | 219 | 941 | 57 | 161 | (NA) |
| | POTTAWATOMIE COUNTY, TOTAL | 186 | 6 | 402 | 1 801 | 345 | 636 | 1 422 | 9 005 | 5 232 | 12 390 | 1 847 | 565 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 135 | 2 | 199 | 896 | 171 | 300 | 700 | 6 585 | 3 839 | 8 743 | 1 681 | 316 | (NA) |
| | ROGERS COUNTY, TOTAL | 45 | 2 | 166 | 729 | 139 | 260 | 601 | 1 874 | 1 391 | 3 054 | 211 | 409 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | 1 | 91 | 318 | 73 | 153 | 251 | 665 | 1 026 | 1 579 | 112 | 263 | (NA) |
| | SEMINOLE COUNTY, TOTAL | 266 | 13 | 1 190 | 5 561 | 983 | 1 839 | 4 323 | 22 124 | 11 255 | 30 112 | 3 267 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 186 | 4 | 532 | 2 764 | 401 | 751 | 1 870 | 16 877 | 7 036 | 21 300 | 2 613 | 818 | (NA) |
| | STEPHENS COUNTY, TOTAL | 252 | 13 | 2 116 | 13 289 | 1 149 | 2 279 | 6 067 | 55 691 | 22 251 | 71 084 | 6 858 | (NA) | (NA) |
| 13 131 132 138 | OIL AND GAS EXTRACTION | 252 | 13 | 1 354 | 7 371 | 1 149 | 2 279 | 6 067 | 55 691 | 22 251 | 71 084 | 6 858 | 2 759 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 166 | 6 | 638 | 3 446 | 494 | 968 | 2 493 | 47 814 | 15 589 | 57 729 | 5 674 | 1 075 | (NA) |
| | NATURAL GAS LIQUIDS. | 5 | 2 | 126 | 827 | 114 | 251 | 717 | 3 657 | 3 828 | 7 263 | 222 | 135 | 4 190 |
| 13 131 132 138 | OIL AND GAS FIELD SERVICES | 81 | 5 | 590 | 3 098 | 541 | 1 060 | 2 857 | 4 220 | 2 834 | 6 092 | 962 | 1 549 | (NA) |
| | TEXAS COUNTY, TOTAL. | 95 | 6 | 436 | 2 806 | 372 | 776 | 2 281 | 41 856 | 20 608 | 49 821 | 12 643 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 132 | CRUDE PETROLEUM AND NATURAL GAS. . | 42 | 3 | 151 | 1 039 | 130 | 274 | 860 | 30 097 | 8 510 | 26 525 | 12 082 | 130 | (NA) |
| | NATURAL GAS LIQUIDS. | 6 | 1 | 67 | 475 | 43 | 94 | 285 | 9 718 | 9 779 | 19 165 | 332 | 82 | 1 311 |
| | TILLMAN COUNTY, TOTAL. | 19 | - | 59 | 238 | 42 | 90 | 217 | 1 191 | 286 | 1 350 | 127 | 58 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 13 | - | 26 | 169 | 22 | 53 | 151 | 740 | 202 | 872 | 70 | 47 | (NA) |
| | TULSA COUNTY, TOTAL. | 282 | 30 | 6 348 | 51 407 | 1 615 | 3 267 | 8 918 | 30 627 | 7 900 | 33 871 | 4 656 | 6 713 | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 266 | 25 | 2 559 | 16 743 | 1 396 | 2 769 | 8 025 | 28 634 | 6 471 | 30 701 | 4 404 | 6 490 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 199 | 13 | 1 950 | 13 257 | 943 | 1 765 | 5 538 | 25 103 | 4 846 | 26 674 | 3 275 | 5 622 | (NA) |
| | OIL AND GAS FIELD SERVICES | 65 | 12 | 598 | 3 431 | 443 | 983 | 2 432 | 3 353 | 1 551 | 3 775 | 1 129 | (NA) | (NA) |
| 14 142 | NONMETALLIC MINERALS MINING. | 16 | 5 | 246 | 1 023 | 219 | 498 | 893 | 1 993 | 1 429 | 3 170 | 252 | 223 | 1 465 |
| | CRUSHED AND BROKEN STONE | 4 | 3 | 114 | 475 | 102 | 250 | 420 | 874 | 813 | 1 588 | 99 | 138 | 785 |
| | WASHINGTON COUNTY, TOTAL | 140 | 4 | 1 600 | 11 108 | 362 | 772 | 1 441 | 10 783 | 4 119 | 12 910 | 1 992 | 557 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 108 | 4 | 319 | 1 297 | 264 | 556 | 998 | 9 671 | 3 601 | 11 354 | 1 918 | 411 | (NA) |
| | WASHITA COUNTY, TOTAL. | 17 | 1 | 39 | 229 | 31 | 72 | 167 | 2 223 | 923 | 1 903 | 1 243 | 73 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | - | 4 | 18 | 2 | 5 | 9 | 1 963 | 615 | 1 419 | 1 159 | (NA) | (NA) |
| | WOODS COUNTY, TOTAL. | 42 | - | 38 | 196 | 31 | 54 | 146 | 2 143 | 1 214 | 2 175 | 1 182 | 15 | (NA) |
| 13 131 138 | OIL AND GAS EXTRACTION | 42 | - | 38 | 196 | 31 | 54 | 146 | 2 143 | 1 214 | 2 175 | 1 182 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 21 | - | 8 | 42 | 7 | 11 | 25 | 1 737 | 900 | 1 541 | 1 096 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 21 | - | 30 | 154 | 24 | 43 | 121 | 406 | 314 | 634 | 86 | (NA) | (NA) |
| 13 131 | WOODWARD COUNTY, TOTAL | 58 | 6 | 479 | 3 117 | 374 | 691 | 2 319 | 20 319 | 14 289 | 24 967 | 9 641 | 125 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 26 | 2 | 197 | 1 677 | 138 | 307 | 1 164 | 16 822 | 10 646 | 18 370 | 9 098 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (number) | (\$1,000) |
| | UNDISTRIBUTED. TOTAL | 219 | 18 | 1 512 | 6 270 | 1 268 | 1 820 | 4 475 | 19 644 | 9 398 | 24 691 | 4 351 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 219 | 18 | 1 512 | 6 270 | 1 268 | 1 820 | 4 475 | 19 644 | 9 398 | 24 691 | 4 351 | 2 885 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 70 | 8 | 643 | 2 844 | 477 | 446 | 1 497 | 13 129 | 5 994 | 16 019 | 3 104 | 1 190 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 149 | 10 | 869 | 3 426 | 791 | 1 374 | 2 978 | 6 515 | 3 404 | 8 672 | 1 247 | 1 695 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | 101 Iron ores 102 Copper ores 103 Lead and zinc ores 104 Gold and silver ores 105 Bauxite 106 Ferrous ores 108 Metal mining services | | | | | | | | | | | | | | | | 109 Miscellaneous metal ores 110 Anthracite 11C Anthracite mining services 120 Bituminous coal and lignite 12C Coal mining services 131 Crude petroleum and natural gas 132 Natural gas liquids | | | | | | | | | | | | | | | | 138 Oil and gas field services 141 Dimension stone 141M Dimension stone in manufactures 142 Crushed and broken stone 142M Crushed and broken stone in manufactures 144 Sand and gravel 144M Sand and gravel in manufactures | | | | | | | | | | | | | | | | 145 Clay and related minerals 145M Clay and related minerals in manufactures 147 Chemical and fertilizer minerals 148 Nonmetallic minerals services 149 Miscellaneous minerals, n.e.c. 149M Miscellaneous minerals, n.e.c., in manufactures | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|---|------|-----|------|-----|------|-----|------|-----|-----|-----|------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | Classified in mineral industries ^a | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OKLAHOMA, TOTAL | 2 547 | 2 519 | 28 | - | - | 22 | - | - | - | - | - | - | - | 23 | 3 | 1603 | 75 | 682 | 9 | 4 | 32 | 5 | 56 | 5 | 5 | 13 | - | 1 | 8 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NO EMPLOYEES | 427 | 426 | 1 | - | - | 1 | - | - | - | - | - | - | - | 7 | - | 349 | 2 | 49 | 4 | - | 1 | 1 | 12 | - | 1 | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1-4 EMPLOYEES | 1 177 | 1 162 | 15 | - | - | 7 | - | - | - | - | - | - | - | 7 | 3 | 840 | 11 | 257 | 3 | 3 | 5 | 1 | 20 | 3 | 2 | 8 | - | 1 | 6 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5-9 EMPLOYEES | 348 | 340 | 8 | - | - | 7 | - | - | - | - | - | - | - | 2 | - | 185 | 15 | 115 | - | 1 | 4 | 1 | 9 | 2 | 1 | 4 | - | - | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10-19 EMPLOYEES | 294 | 291 | 3 | - | - | 5 | - | - | - | - | - | - | - | 1 | - | 123 | 23 | 119 | 2 | - | 7 | 2 | 10 | - | 1 | 1 | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-49 EMPLOYEES | 212 | 211 | 1 | - | - | 1 | - | - | - | - | - | - | - | 3 | - | 63 | 19 | 108 | - | - | 13 | - | 4 | - | - | - | - | - | - | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 50-99 EMPLOYEES | 56 | 56 | - | - | - | 1 | - | - | - | - | - | - | - | 2 | - | 25 | 4 | 22 | - | - | 1 | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100-249 EMPLOYEES | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 9 | 1 | 11 | - | - | 1 | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250-499 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500-999 EMPLOYEES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000-2499 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADAIR COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ALFALFA COUNTY, TOTAL | 45 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | 33 | - | 11 | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 43 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 10 | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATOKA COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BEAVER COUNTY, TOTAL | 132 | 132 | - | - | - | - | - | - | - | - | - | - | - | - | - | 72 | 4 | 56 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 129 | 129 | - | - | - | - | - | - | - | - | - | - | - | - | - | 72 | 3 | 54 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BECKHAM COUNTY, TOTAL | 23 | 23 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | 1 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BLAINE COUNTY, TOTAL | 32 | 30 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 14 | 1 | 13 | - | - | - | - | 1 | - | - | - | - | - | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 30 | 29 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 14 | 1 | 12 | - | - | - | - | 1 | - | - | - | - | - | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BRYAN COUNTY, TOTAL | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 12 | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 12 | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CADDO COUNTY, TOTAL | 84 | 84 | - | - | - | - | - | - | - | - | - | - | - | - | - | 60 | - | 20 | 2 | - | - | - | 1 | - | - | - | - | - | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 81 | 81 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | - | 19 | 2 | - | - | - | 1 | - | - | - | - | - | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CANADIAN COUNTY, TOTAL | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 11 | - | - | - | - | - | - | - | - | - | - | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 11 | - | - | - | - | - | - | - | - | - | - | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CARTER COUNTY, TOTAL | 252 | 252 | - | - | - | - | - | - | - | - | - | - | - | - | - | 171 | 6 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 232 | 232 | - | - | - | - | - | - | - | - | - | - | - | - | - | 160 | 5 | 67 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 20 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | 1 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHEROKEE COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHOCTAW COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CIMARRON COUNTY, TOTAL | 37 | 37 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 37 | 37 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CLEVELAND COUNTY, TOTAL | 104 | 104 | - | - | - | - | - | - | - | - | - | - | - | - | - | 64 | 2 | 38 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | 64 | 2 | 34 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COAL COUNTY, TOTAL | 37 | 37 | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 36 | 36 | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COMANCHE COUNTY, TOTAL | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 6 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 28 | 28 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| GARFIELD COUNTY, TOTAL | 137 | 136 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 75 | 3 | 57 | - | - | - | - | - | - | - | 1 | - | - | 1 | - |
| 0-19 EMPLOYEES | 127 | 126 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 71 | 2 | 52 | - | - | - | - | - | - | - | 1 | - | - | 1 | - |
| 20-99 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| GARVIN COUNTY, TOTAL | 207 | 207 | - | - | - | - | - | - | - | - | - | - | - | - | - | 123 | 6 | 76 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 188 | 188 | - | - | - | - | - | - | - | - | - | - | - | - | - | 119 | 4 | 63 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GRADY COUNTY, TOTAL | 83 | 83 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | 2 | 22 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 81 | 81 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | 2 | 22 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| GRANT COUNTY, TOTAL | 88 | 88 | - | - | - | - | - | - | - | - | - | - | - | - | - | 63 | 2 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 86 | 86 | - | - | - | - | - | - | - | - | - | - | - | - | - | 62 | 2 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| GREER COUNTY, TOTAL | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | - | - | - | 4 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | - | - | - | 4 | - | - | 1 | - | - | - | - |
| HARMON COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HARPER COUNTY, TOTAL | 67 | 67 | - | - | - | - | - | - | - | - | - | - | - | - | - | 45 | 1 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 65 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | 45 | - | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HASKELL COUNTY, TOTAL | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 12 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 12 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HUGHES COUNTY, TOTAL | 136 | 136 | - | - | - | - | - | - | - | - | - | - | - | - | - | 98 | - | 37 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 136 | 136 | - | - | - | - | - | - | - | - | - | - | - | - | - | 98 | - | 37 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| JACKSON COUNTY, TOTAL | 24 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 7 | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 24 | 24 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 7 | 1 | - | - | - | 1 | - | - | - | - | - | - | - |
| JEFFERSON COUNTY, TOTAL | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 47 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 47 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - |
| JOHNSTON COUNTY, TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 2 | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 2 | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| KAY COUNTY, TOTAL | 130 | 130 | - | - | - | - | - | - | - | - | - | - | - | - | - | 80 | 1 | 44 | - | - | 2 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 128 | 128 | - | - | - | - | - | - | - | - | - | - | - | - | - | 79 | - | 44 | - | - | 2 | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| KINGFISHER COUNTY, TOTAL | 133 | 133 | - | - | - | - | - | - | - | - | - | - | - | - | - | 68 | 3 | 61 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 121 | 121 | - | - | - | - | - | - | - | - | - | - | - | - | - | 66 | 3 | 51 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| KIOWA COUNTY, TOTAL | 23 | 21 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 2 | 1 | 2 | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 20 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 2 | 1 | 2 | 1 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| LATIMER COUNTY, TOTAL | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 10 | - | 14 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 24 | 24 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 10 | - | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| LE FLORE COUNTY, TOTAL | 32 | 31 | 1 | - | - | - | - | - | - | - | - | - | - | 4 | - | 11 | - | 15 | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 31 | 30 | 1 | - | - | - | - | - | - | - | - | - | - | 4 | - | 11 | - | 14 | - | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| LINCOLN COUNTY, TOTAL | 181 | 180 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 134 | 3 | 43 | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 177 | 176 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 133 | 2 | 41 | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| LOGAN COUNTY, TOTAL | 118 | 118 | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 | 1 | 33 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 117 | 117 | - | - | - | - | - | - | - | - | - | - | - | - | - | 82 | 1 | 32 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| LOVE COUNTY, TOTAL | 43 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 2 | 13 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| MURRAY COUNTY: TOTAL | 34 | 34 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 13 | - | - | 3 | - | 1 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 32 | 32 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 13 | - | - | 1 | - | 1 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| MUSKOGEE COUNTY: TOTAL | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 | - | 12 | - | - | 1 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 41 | - | 12 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| NOBLE COUNTY: TOTAL | 114 | 114 | - | - | - | - | - | - | - | - | - | - | - | - | - | 80 | 1 | 33 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 113 | 113 | - | - | - | - | - | - | - | - | - | - | - | - | - | 80 | - | 33 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| NOWATA COUNTY: TOTAL | 65 | 65 | - | - | - | - | - | - | - | - | - | - | - | - | - | 50 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 63 | 63 | - | - | - | - | - | - | - | - | - | - | - | - | - | 48 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OKFUSKEE COUNTY: TOTAL | 147 | 147 | - | - | - | - | - | - | - | - | - | - | - | - | - | 113 | 3 | 31 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 146 | 146 | - | - | - | - | - | - | - | - | - | - | - | - | - | 113 | 3 | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| OKLAHOMA COUNTY: TOTAL | 267 | 263 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 158 | 5 | 93 | - | - | 1 | 1 | 5 | 2 | 1 | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 225 | 221 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 136 | 2 | 76 | - | - | 1 | 1 | 5 | 2 | 1 | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 37 | 37 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | 3 | 17 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OKMULGEE COUNTY: TOTAL | 159 | 159 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | 120 | - | 36 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 158 | 158 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | 119 | - | 36 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| OSAGE COUNTY: TOTAL | 315 | 315 | - | - | - | - | - | - | - | - | - | - | - | - | - | 223 | 1 | 89 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 302 | 302 | - | - | - | - | - | - | - | - | - | - | - | - | - | 215 | 1 | 84 | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| OTTAWA COUNTY: TOTAL | 26 | 26 | - | - | - | 21 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 24 | 24 | - | - | - | 19 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PAWNEE COUNTY: TOTAL | 104 | 104 | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 | - | 29 | - | - | 3 | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 103 | 103 | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 | - | 29 | - | - | 2 | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| PAYNE COUNTY: TOTAL | 124 | 124 | - | - | - | - | - | - | - | - | - | - | - | - | - | 91 | - | 33 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 118 | 118 | - | - | - | - | - | - | - | - | - | - | - | - | - | 90 | - | 28 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| PITTSBURG COUNTY: TOTAL | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 11 | - | 11 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 24 | 24 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 11 | - | 10 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PONTOTOC COUNTY: TOTAL | 152 | 148 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 108 | 1 | 35 | 1 | 1 | - | 1 | 3 | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 147 | 143 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 107 | 1 | 32 | 1 | 1 | - | 1 | 2 | - | - | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| POTTAWATOMIE COUNTY: TOTAL | 186 | 186 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 135 | 1 | 49 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 180 | 180 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 133 | - | 46 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| PUSHMATAHA COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| ROGER MILLS COUNTY: TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| ROGERS COUNTY: TOTAL | 47 | 45 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | - | 30 | - | 13 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 45 | 43 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 29 | - | 13 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEMINOLE COUNTY: TOTAL | 266 | 266 | - | - | - | - | - | - | - | - | - | - | - | - | - | 186 | 3 | 75 | - | - | 1 | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 253 | 253 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WASHINGTON COUNTY: TOTAL | 141 | 140 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 108 | - | 31 | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 137 | 136 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 104 | - | 31 | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHITA COUNTY: TOTAL | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 5 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 | - | 4 | - | - | - | - | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WOODS COUNTY: TOTAL | 42 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 42 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| WOODWARD COUNTY: TOTAL | 58 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | 1 | 30 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | - | - | 24 | 1 | 26 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 219 | 219 | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 | - | 149 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 201 | 201 | - | - | - | - | - | - | - | - | - | - | - | - | - | 62 | - | 139 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES. | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES. | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

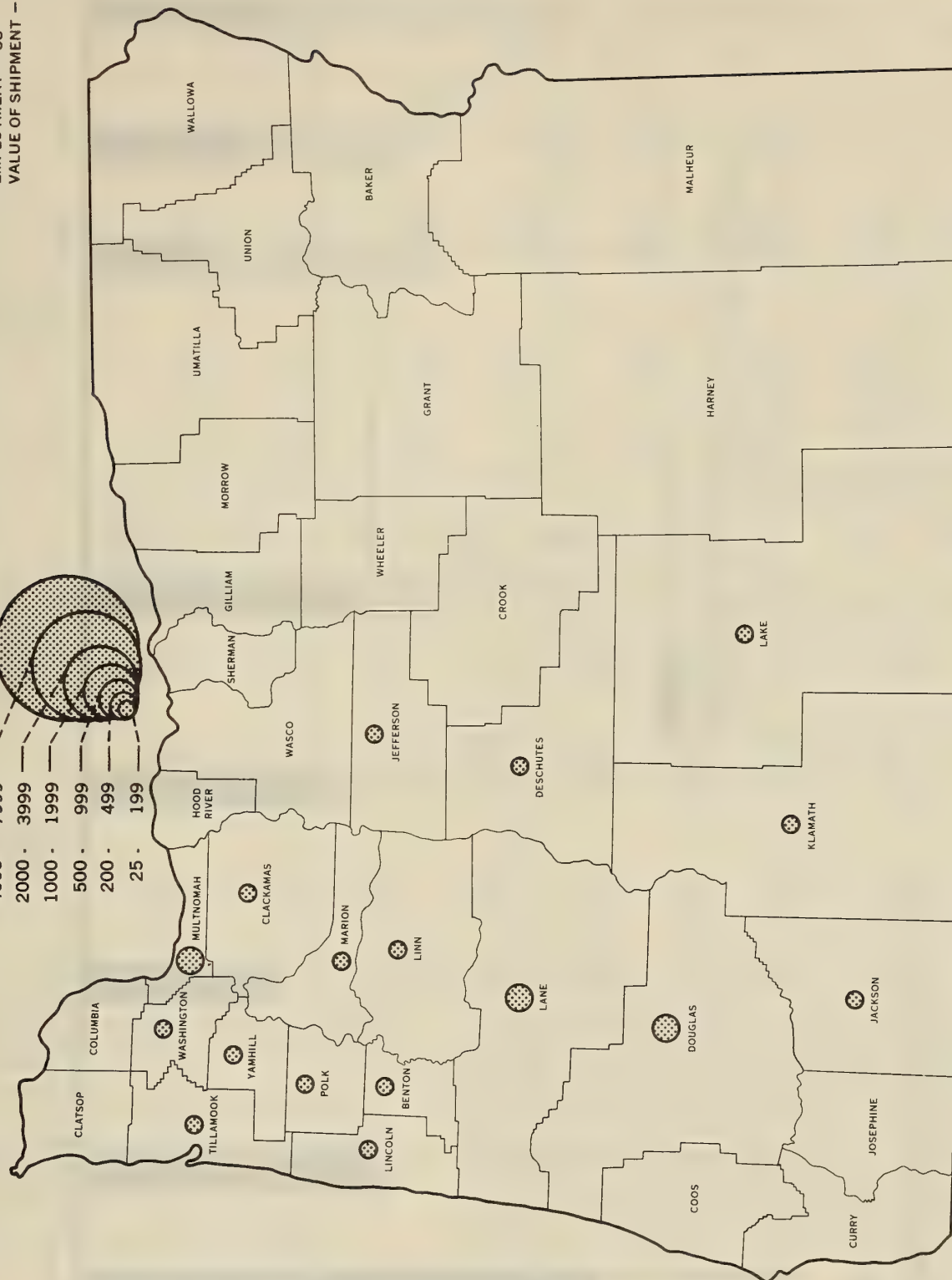
EMPLOYMENT IN MINING BY COUNTY: 1963

OREGON

EMPLOYMENT

8000 - 12000
4000 - 7999
2000 - 3999
1000 - 1999
500 - 999
200 - 499
25 - 199

RANK AMONG STATES
EMPLOYMENT - 38
VALUE OF SHIPMENT - 42



SCALE
0 10 20 30 40 50 MILES

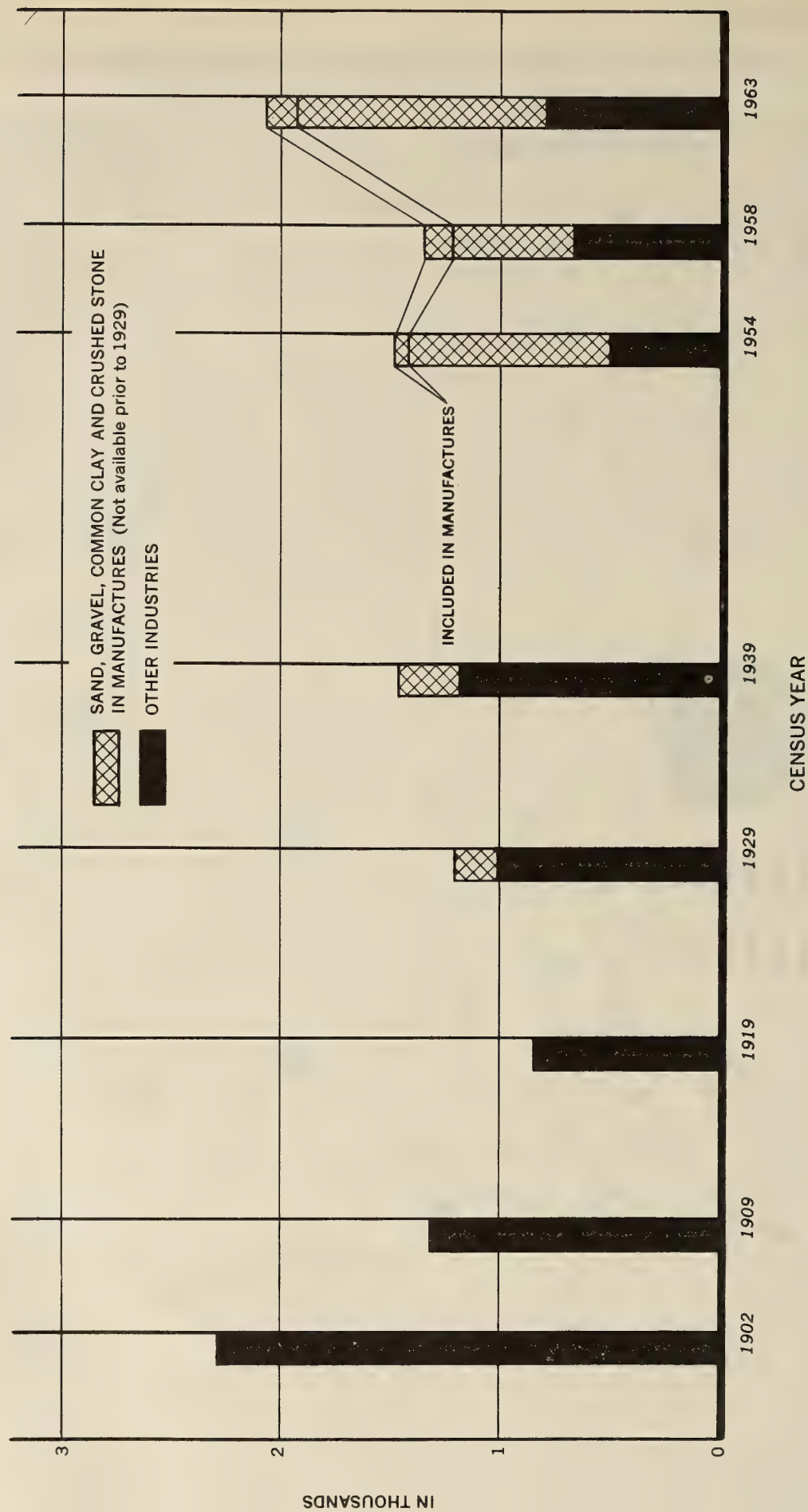
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

OREGON



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---|--|--|--------------------------------|--|---|--------------------------|-------------------------------|--|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 206 | 22 | 1 938 | 11 234 | 1 571 | 3 028 | 8 819 | 17 656 | |
| 1958 | 201 | 13 | 1 220 | 6 261 | 991 | 1 982 | 4 962 | 15 879 | |
| 1954 | 278 | 13 | 1 436 | 6 313 | 1 280 | 2 588 | 5 485 | 12 646 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 231 | 22 | 2 072 | 11 842 | 1 705 | 3 298 | 9 427 | 21 310 | |
| 1958 | 230 | 15 | 1 367 | 6 921 | 1 138 | 2 270 | 5 622 | 18 633 | |
| 1954 ¹ | 296 | 13 | 1 487 | 6 546 | 1 331 | 2 690 | 5 718 | 13 168 | |
| 1939 ² | 3128 | (NA) | 1 476 | 1 955 | 1 309 | 2 672 | 1 627 | 3 807 | |
| 1929 ⁴ | 112 | (NA) | 1 210 | 1 808 | 1 087 | (NA) | 1 544 | 2 529 | |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS: | | | | | | | | | |
| 1963 | 116 | 10 | 795 | 4 486 | 710 | 1 353 | 3 958 | 7 142 | |
| 1958 | 131 | 8 | 677 | 3 425 | 545 | 1 099 | 2 680 | 10 616 | |
| 1954 | 156 | 3 | 505 | 1 986 | 447 | 848 | 1 712 | 3 476 | |
| 1939 ⁵ | 393 | (NA) | 1 194 | 1 593 | 1 071 | 2 198 | 1 338 | 3 156 | |
| 1929 ⁶ | 94 | (NA) | 1 030 | 1 487 | 946 | (NA) | 1 329 | 1 582 | |
| 1919 | 56 | (NA) | 851 | 1 191 | 776 | (NA) | 1 039 | 1 106 | |
| 1909 | 236 | (NA) | 1 318 | 1 181 | 1 158 | (NA) | 995 | 731 | |
| 1902 ⁷ | 3486 | (NA) | 2 297 | 2 190 | 2 005 | (NA) | 1 839 | 1 343 | |
| Kind of operation and year | Selected expenses | | | | | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ⁹ (\$1,000) | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 7 332 | 276 | 2 350 | 2 502 | 25 699 | 4 417 | 437 | 278 | 183 |
| 1958 | 5 803 | 166 | 3 033 | 1 632 | 19 911 | 6 602 | 345 | 348 | (NA) |
| 1954 | 4 588 | 66 | 1 895 | 2 759 | 18 263 | 3 691 | 349 | 273 | 141 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | ¹⁰ 7 886 | 276 | ¹⁰² 350 | ¹¹² 502 | 29 907 | ¹¹⁴ 417 | ¹¹⁴ 37 | 278 | ¹¹¹ 183 |
| 1958 | ¹⁰ 6 173 | 166 | ¹⁰³ 083 | ¹¹¹ 632 | 23 085 | ¹¹⁶ 602 | ¹¹³ 45 | 303 | (NA) |
| 1954 ¹ | ¹⁰ 4 681 | 66 | ¹⁰¹ 899 | ¹¹² 761 | 18 872 | ¹¹³ 703 | ¹¹³ 49 | 262 | ¹¹¹ 141 |
| 1939 ² | 1 298 | (NA) | 15 | (NA) | 5 120 | (NA) | 143 | 109 | 33 |
| 1929 ⁴ | 872 | (NA) | 111 | 212 | 3 512 | (NA) | 100 | 92 | 15 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS: | | | | | | | | | |
| 1963 | 1 819 | 276 | 2 347 | 2 496 | 11 806 | 2 274 | 224 | 315 | 81 |
| 1958 | 3 045 | 93 | 2 741 | 701 | 11 785 | 5 411 | 144 | 264 | (NA) |
| 1954 | 1 617 | 66 | 1 561 | 1 261 | 5 586 | 2 395 | 137 | 306 | 48 |
| 1939 ⁵ | 1 074 | (NA) | 13 | (NA) | 4 243 | (NA) | 109 | 102 | 18 |
| 1929 ⁶ | 717 | (NA) | 111 | 159 | 2 410 | (NA) | 70 | 74 | 10 |
| 1919 | 729 | - | 50 | (NA) | 1 885 | (NA) | ¹² 76 | 98 | 6 |
| 1909 | 440 | - | 21 | (NA) | 1 192 | (NA) | (NA) | (NA) | 13 |
| 1902 ⁷ | 649 | (NA) | 95 | (NA) | 2 087 | (NA) | (NA) | (NA) | 4 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

²Excludes data for dimension stone dressing operations, if any, in conjunction with two stone, quarries, not elsewhere classified.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale operations. There were 9 such mines in 1939 with products valued at \$68 thousand.

⁵Includes data for one or more stone quarries operated as parts of cement plants. See also footnote 2.

⁶Includes data for 3 stone quarries operated as parts of cement plants.

⁷Includes data for lime plants producing lime valued at \$20 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of "Minerals received for preparation."

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, for such operations, the quantity of purchased electric energy amounted to 7 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 231 | 22 | 2 072 | 11 842 | 1 705 | 3 298 | 9 427 |
| | MINERAL INDUSTRIES. | 206 | 22 | 1 938 | 11 234 | 1 571 | 3 028 | 8 819 |
| | INCLUDED IN MANUFACTURES. | 25 | - | ¹ 134 | ¹ 608 | ¹ 134 | 270 | 608 |
| 10 | METAL MINING. | 25 | 1 | 122 | 736 | 104 | 205 | 598 |
| 1311 | OIL AND GAS EXTRACTION (CRUDE PETROLEUM AND NATURAL GAS-CRUDE PETROLEUM) | 7 | - | 11 | 79 | 5 | 13 | 35 |
| 14 | NONMETALLIC MINERALS MINING | 199 | 21 | 1 939 | 11 027 | 1 596 | 3 080 | 8 794 |
| | MINERAL INDUSTRIES. | 174 | 21 | 1 805 | 10 419 | 1 462 | 2 810 | 8 186 |
| | INCLUDED IN MANUFACTURES. | 25 | - | ¹ 134 | ¹ 608 | ¹ 134 | 270 | 608 |
| 1421 | CRUSHED AND BROKEN STONE. | 74 | 9 | 602 | 3 363 | 546 | 1 042 | 3 037 |
| | MINERAL INDUSTRY. | 66 | 9 | 558 | 3 148 | 502 | 952 | 2 822 |
| | INCLUDED IN MANUFACTURES. | 8 | - | ¹ 44 | ¹ 215 | ¹ 44 | 90 | 215 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 11 | 3 | ¹ 95 | ¹ 445 | ¹ 87 | 192 | 407 |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY: MINERAL SUBINDUSTRY | 58 | 5 | 448 | 2 605 | 400 | 734 | 2 317 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY. | 86 | 11 | 1 121 | 6 634 | 839 | 1 637 | 4 747 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. . . . | 10 | - | 42 | 214 | 38 | 79 | 195 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 21 310 | ² 13 014 | ¹ 29 907 | (NA) | 1 367 | 18 633 | |
| | MINERAL INDUSTRIES. | 17 656 | 12 460 | 25 699 | 4 417 | 1 220 | 15 879 | |
| | INCLUDED IN MANUFACTURES. | 3 654 | ² 554 | ¹ 4 208 | (NA) | ¹ 147 | 2 754 | |
| 10 | METAL MINING. | (D) | 1 004 | (D) | 950 | 265 | (NA) | |
| 1311 | OIL AND GAS EXTRACTION (CRUDE PETROLEUM AND NATURAL GAS-CRUDE PETROLEUM) | (³) | 1 185 | | 334 | 24 | (NA) | |
| 14 | NONMETALLIC MINERALS MINING | (D) | ² 10 825 | (D) | (NA) | 1 078 | 11 566 | |
| | MINERAL INDUSTRIES. | (D) | 10 271 | (D) | 3 133 | 931 | 8 812 | |
| | INCLUDED IN MANUFACTURES. | 3 654 | ² 554 | ¹ 4 208 | (NA) | ¹ 147 | 2 754 | |
| 1421 | CRUSHED AND BROKEN STONE. | 5 930 | ² 4 142 | ¹ 9 263 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY. | 5 130 | 3 994 | 8 315 | 809 | 301 | 2 899 | |
| | INCLUDED IN MANUFACTURES. | 800 | ² 148 | ¹ 948 | (NA) | (NA) | (NA) | |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 1 092 | ² 418 | ¹ 1 406 | (NA) | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY: MINERAL SUBINDUSTRY | 3 989 | 3 636 | 7 095 | 530 | 204 | 1 904 | |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY. | 10 201 | 5 335 | 13 486 | 2 050 | 532 | 5 059 | |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. . . . | 623 | 357 | 840 | 140 | 76 | 568 | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Not shown since the cost of supplies, purchased fuels and electric energy, contract work, and purchased machinery installed exceeds value of shipments and receipts plus capital expenditures.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--------------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|---------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES.. | 12 460 | 7 332 | 276 | 2 350 | 2 502 | 4 417 | 830 | 3 587 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING.. | 10 271 | 6 625 | 276 | 1 072 | 2 298 | 3 133 | 48 | 3 085 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE.... | 3 994 | ³ 2 820 | (³) | 740 | 434 | 809 | 6 | 803 | 4 707 | 7 254 | ⁴ 955 | ⁴ 1 382 |
| | CRUSHED AND BROKEN STONE, N.E.C..... | 3 636 | ³ 2 516 | (³) | 708 | 412 | 530 | - | 530 | 3 859 | 6 035 | (D) | (D) |
| 1441 | SAND AND GRAVEL..... | 5 335 | ³ 3 367 | (³) | 277 | 1 691 | 2 050 | 32 | 2 018 | 9 683 | ⁵ 15 187 | ⁶ 1 462 | (⁵) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.⁶Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|--------|--------------------|----------------|--|-----------------------------|---------------------------------------|
| | | | Total | Mines only | | | Mines with preparation plants | | | | Separately operated preparation plants | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | | | Combination methods and other methods |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 204 | 178 | 38 | 4 | 30 | 4 | 137 | 2 | 109 | 26 | 3 | 26 |
| | NUMBER OF EMPLOYEES..... | ² 1 960 | 1 862 | 176 | (D) | (D) | (D) | 1 696 | (D) | (D) | (D) | 18 | ² 74 |
| | VALUE ADDED IN MINING.....\$1,000.. | ² 17 656 | 17 181 | 1 897 | (D) | (D) | (D) | 15 284 | (D) | (D) | (D) | 167 | ² 475 |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 66 | 63 | 13 | - | 13 | - | 48 | - | 48 | - | 2 | 3 |
| | NUMBER OF EMPLOYEES..... | 556 | 554 | (D) | - | (D) | - | 516 | - | 516 | - | (D) | 2 |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 113 | 5 111 | (D) | - | (D) | - | 4 998 | - | 4 998 | - | (D) | 2 |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 86 | 86 | 11 | - | 7 | 4 | 74 | - | 48 | 26 | 1 | - |
| | NUMBER OF EMPLOYEES..... | 1 144 | 1 144 | (D) | - | (D) | (D) | (D) | - | 577 | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 10 474 | 10 474 | (D) | - | (D) | (D) | (D) | - | 6 948 | (D) | (D) | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Includes data for two nonmetallic mining service establishments.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expend- itures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 231 | 22 | 2 072 | 11 842 | 1 705 | 3 298 | 9 427 | 21 310 | 13 014 | 29 907 | (NA) | 1 367 | 18 633 |
| | MINERAL INDUSTRIES | 206 | 22 | 1 938 | 11 234 | 1 571 | 3 028 | 8 819 | 17 656 | 12 460 | 25 699 | 4 417 | 1 220 | 15 879 |
| | INCLUDED IN MANUFACTURES ² | 25 | - | 134 | 608 | 134 | 270 | 608 | 3 654 | 554 | 4 208 | (NA) | 147 | 2 754 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| 14 | CLACKAMAS COUNTY, TOTAL | 15 | 2 | 191 | 826 | 153 | 291 | 668 | 1 920 | 761 | 2 394 | 287 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 15 | 2 | 191 | 826 | 153 | 291 | 668 | 1 920 | 761 | 2 394 | 287 | 86 | 944 |
| 14 | DESCHUTES COUNTY, TOTAL | 5 | - | 85 | 172 | 82 | 58 | 155 | 439 | 266 | 606 | 99 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 5 | - | 85 | 172 | 82 | 58 | 155 | 439 | 266 | 606 | 99 | (NA) | (NA) |
| | DOUGLAS COUNTY, TOTAL | 11 | 4 | 285 | 2 220 | 255 | 532 | 1 927 | 2 915 | 1 809 | 4 070 | 654 | 206 | 6 644 |
| | JACKSON COUNTY, TOTAL | 8 | 1 | 51 | 253 | 48 | 90 | 233 | 408 | 194 | 554 | 48 | (NA) | (NA) |
| 14 | KLAMATH COUNTY, TOTAL | 15 | - | 70 | 385 | 59 | 97 | 323 | 329 | 706 | 870 | 165 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 15 | - | 70 | 385 | 59 | 97 | 323 | 329 | 706 | 870 | 165 | 25 | 254 |
| | LANE COUNTY, TOTAL | 29 | 4 | 280 | 1 553 | 265 | 484 | 1 487 | 3 982 | 2 075 | 5 412 | 645 | 126 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | 15 | 2 | 97 | 597 | 93 | 161 | 585 | 1 363 | 1 139 | 2 255 | 247 | (NA) | (NA) |
| | MARION COUNTY, TOTAL | 8 | - | 37 | 202 | 26 | 55 | 116 | 321 | 298 | 528 | 91 | (NA) | (NA) |
| | MULTNOMAH COUNTY, TOTAL | 10 | 3 | 388 | 2 399 | 193 | 389 | 988 | 2 653 | 1 302 | 3 653 | 302 | 152 | (NA) |
| 14 | POLK COUNTY, TOTAL | 6 | 2 | 57 | 288 | 53 | 93 | 270 | 508 | 299 | 746 | 61 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 6 | 2 | 57 | 288 | 53 | 93 | 270 | 508 | 299 | 746 | 61 | (NA) | (NA) |
| | WASHINGTON COUNTY, TOTAL | 9 | 1 | 73 | 451 | 72 | 132 | 442 | 1 095 | 569 | 1 405 | 259 | 62 | 513 |
| 14 | YAMHILL COUNTY, TOTAL | 5 | - | 36 | 240 | 35 | 67 | 236 | 321 | 479 | 714 | 86 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 5 | - | 36 | 240 | 35 | 67 | 236 | 321 | 479 | 714 | 86 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| POLK COUNTY: TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| SHERMAN COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| TILLAMOOK COUNTY: TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 1 | - | - | - | - | - |
| UMATILLA COUNTY: TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 1 | - | - | - | - | - | - |
| UNION COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - |
| WALLOWA COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WASCO COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| WASHINGTON COUNTY: TOTAL | 9 | 9 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 2 | - | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WHEELER COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| YAMHILL COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - |
| OFFSHORE: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

PENNSYLVANIA

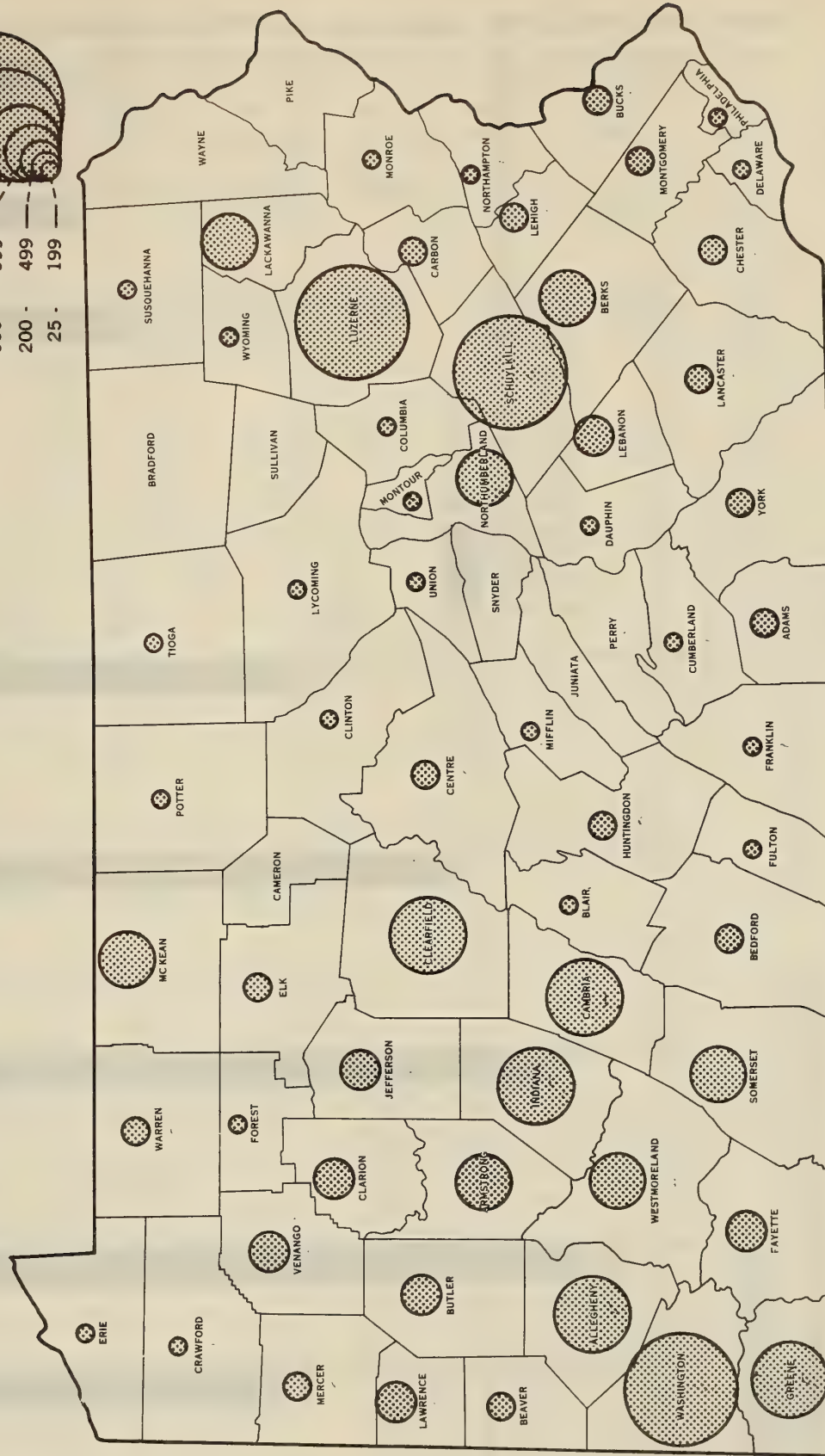
RANK AMONG STATES

EMPLOYMENT - 2

VALUE OF SHIPMENT - 6

EMPLOYMENT

| |
|--------------|
| 8000 - 12000 |
| 4000 - 7999 |
| 2000 - 3999 |
| 1000 - 1999 |
| 500 - 999 |
| 200 - 499 |
| 25 - 199 |



SCALE 0 10 20 30 40 50 MILES

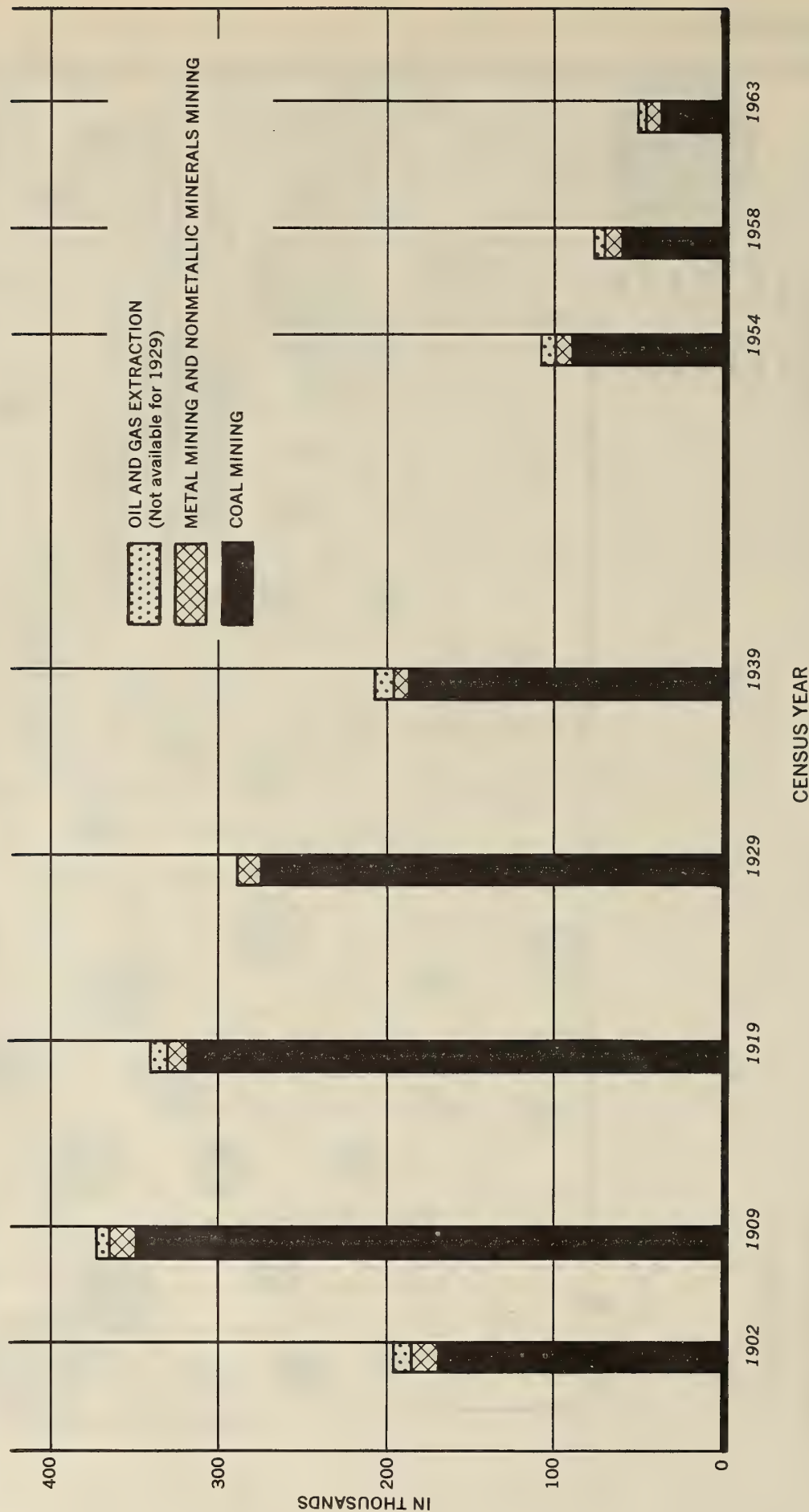
BUREAU OF THE CENSUS

U. S. DEPARTMENT OF COMMERCE

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

PENNSYLVANIA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining |
|--|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|-----------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 3 405 | 407 | 48 917 | 269 601 | 41 347 | 79 452 | 215 805 | 555 346 |
| 1958 | 3 822 | 525 | 73 993 | 342 246 | 63 578 | 105 155 | 277 039 | 579 743 |
| 1954 | 4 538 | 673 | 105 152 | 402 533 | 93 897 | 152 445 | 342 053 | 631 703 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | 3 550 | 437 | 50 746 | 278 862 | 43 122 | 83 037 | 224 683 | 585 333 |
| 1958 | 3 978 | 557 | 76 068 | 350 938 | 65 602 | 109 165 | 285 378 | 608 935 |
| 1954 ¹ | 4 681 | 721 | 107 767 | 411 954 | 96 449 | 157 581 | 351 200 | 657 038 |
| 1939 ² | 3 298 | (NA) | 206 766 | 276 146 | 193 458 | 296 599 | 245 270 | 384 397 |
| 1919 ⁴ | 5 820 | (NA) | 341 650 | 480 344 | 323 507 | (NA) | 445 353 | 659 235 |
| 1909 ⁴ | 5 287 | (NA) | 373 136 | 210 761 | 361 398 | (NA) | 197 681 | 288 254 |
| 1902 ⁵ | 3 13 009 | (NA) | 194 772 | 121 078 | 185 603 | (NA) | 111 736 | 191 911 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | 2 809 | 404 | 46 081 | 255 637 | 39 895 | 76 471 | 209 995 | 535 089 |
| 1958 | 3 148 | 514 | 70 585 | 327 923 | 61 118 | 100 401 | 267 815 | 557 165 |
| 1954 ¹ | 3 576 | 674 | 99 984 | 384 269 | 89 482 | 143 711 | 327 060 | 592 269 |
| 1939 ² | 3 2 296 | (NA) | 197 853 | 262 988 | 186 005 | 283 052 | 235 798 | 343 494 |
| 1929 ⁶ | 1 819 | (NA) | 289 883 | 437 742 | 276 500 | (NA) | 403 965 | 581 276 |
| 1919 ⁴ | 2 677 | (NA) | 330 940 | 467 609 | 314 441 | (NA) | 435 133 | 608 511 |
| 1909 ⁷ | 2 243 | (NA) | 365 445 | 205 412 | 354 674 | (NA) | 193 536 | 260 857 |
| 1902 ⁸ | 3 2 825 | (NA) | 185 779 | 114 243 | 177 878 | (NA) | 106 356 | 173 052 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ¹⁰ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
|--|---|--|----------------------|-------------------------------|---|----------------------|-------------------------------|-----------------------|--------------------------------------|
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation ⁹ | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | | | | | | | | | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 159 634 | 143 361 | 57 694 | 59 432 | 889 863 | 85 604 | 8 931 | 216 | 2 989 |
| 1958 | 166 949 | 159 132 | 77 002 | 56 947 | 963 761 | 76 012 | 11 505 | 181 | (NA) |
| 1954 | 151 872 | 176 598 | 96 044 | 52 958 | 1 050 065 | 59 110 | 15 345 | 146 | 4 105 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | ¹¹ 168 071 | ¹⁴ 143 426 | ¹¹ 57 737 | ¹² 59 545 | 928 362 | ¹² 85 750 | ¹² 8 931 | 216 | ¹² 2 989 |
| 1958 | ¹¹ 172 328 | 159 177 | ¹¹ 77 006 | ¹² 57 038 | 998 352 | ¹² 76 132 | ¹² 11 531 | 176 | (NA) |
| 1954 ¹ | ¹¹ 158 443 | 176 609 | ¹¹ 96 056 | ¹² 53 006 | 1 081 975 | ¹² 59 177 | ¹² 15 393 | 143 | ¹² 4 120 |
| 1939 ² | 73 478 | (NA) | 16 013 | (NA) | 473 888 | (NA) | 27 720 | 134 | 2 396 |
| 1919 ⁴ | 146 694 | ¹³ 5 510 | 8 012 | (NA) | 819 451 | (NA) | 101 939 | 298 | 2 000 |
| 1909 ⁴ | 51 696 | 3 099 | 6 011 | (NA) | 349 060 | (NA) | (NA) | (NA) | 1 621 |
| 1902 ⁵ | 29 103 | (NA) | 5 634 | (NA) | 226 648 | (NA) | (NA) | (NA) | 1 144 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | ¹¹ 158 587 | 142 649 | ¹¹ 48 091 | ¹² 55 839 | 868 530 | ¹² 71 725 | ¹² 7 342 | 184 | ¹² 2 630 |
| 1958 | ¹¹ 159 294 | 157 715 | ¹¹ 65 817 | ¹² 53 076 | 930 401 | ¹² 62 666 | ¹² 9 880 | 162 | (NA) |
| 1954 ¹ | ¹¹ 144 618 | 176 528 | ¹¹ 74 203 | ¹² 46 274 | 992 713 | ¹² 41 179 | ¹² 13 430 | 135 | ¹² 3 726 |
| 1939 ² | 69 386 | (NA) | 12 141 | (NA) | 425 021 | (NA) | 25 621 | 129 | 2 196 |
| 1929 ⁶ | 106 210 | (NA) | 7 489 | 15 801 | 694 975 | (NA) | 54 364 | 188 | 2 189 |
| 1919 ⁴ | 136 132 | 5 077 | 3 459 | (NA) | 753 179 | (NA) | 98 956 | 299 | 1 629 |
| 1909 ⁷ | 46 264 | 28 | 2 714 | (NA) | 309 863 | (NA) | (NA) | (NA) | 1 141 |
| 1902 ⁸ | 23 059 | (NA) | 919 | (NA) | 197 030 | (NA) | (NA) | (NA) | 625 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes figures for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite, slate, and sandstone at such operations was \$924 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for basalt, if any, is not available. For statistics "Excluding oil and gas extraction industries," includes data for one nonproducing crude petroleum and natural gas establishment.

³Represents number of mines and quarries, number of natural gas liquids plants, and, for crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes figures for sand, gravel, common clay, and shale mining operations and for crushed and broken stone quarries operated as parts of cement or lime establishments. For 1939, the census included 64 sand and gravel operations with products valued at \$6,619 thousand; 59 common clay and shale pits with products valued at \$560 thousand; and 48 such stone quarries with products valued at \$4,525 thousand. For energy used for 1919, excludes purchased electric energy. For 1939, for "All operations," the quantity of purchased electric energy amounted to only 5 percent of the total kwh equivalent of energy used; and for 1929, for "Excluding oil and gas extraction industries," to only 2 percent.

⁵Excludes figures for sand, gravel, common clay, and shale mining operations and for

crushed and broken stone quarries operated as parts of cement establishments. Includes data for lime plants producing lime valued at \$1,430 thousand. Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶Excludes figures for common clay and shale operations. There were 59 such mines reported for 1939 with products valued at \$560 thousand.

⁷Includes figures for nonproducing oil and gas extraction operations. See also footnote 4.

⁸Includes figures for nonproducing oil and gas extraction operations. See also footnote 4.

⁹For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants, but for 1954 includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments. For energy used and horsepower in 1963, also excludes figures for dimension stone operations in manufactures.

¹³Includes figures for gas purchased for resale without processing.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|---------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 3 550 | 437 | 50 746 | 278 862 | 43 122 | 83 037 | 224 683 |
| | MINERAL INDUSTRIES. | 3 405 | 407 | 48 917 | 269 601 | 41 347 | 79 452 | 215 805 |
| | INCLUDED IN MANUFACTURES. | 145 | 30 | ¹ 1 829 | ¹ 9 261 | ¹ 1 775 | 3 585 | 8 878 |
| 10 | METAL MINING. | 9 | 6 | ² 2 058 | ² 12 788 | 1 790 | 3 399 | 10 265 |
| 11 | ANTHRACITE MINING. | 1 069 | 102 | ³ 11 786 | ³ 58 835 | 10 324 | 19 544 | 49 899 |
| 1111 | ANTHRACITE. | 1 026 | 85 | ³ 10 692 | ³ 53 022 | 9 331 | 17 758 | 44 867 |
| 1112 | ANTHRACITE MINING SERVICES. | 43 | 17 | 1 094 | 5 813 | 993 | 1 786 | 5 022 |
| 12 | BITUMINOUS COAL MINING. | 1 214 | 191 | 24 410 | 142 952 | 21 243 | 39 822 | 117 293 |
| 1211 | BITUMINOUS COAL. | 1 174 | 186 | 23 957 | 140 434 | 20 823 | 38 974 | 114 974 |
| 1213 | BITUMINOUS COAL MINING SERVICES. | 40 | 5 | 453 | 2 518 | 420 | 948 | 2 319 |
| 13 | OIL AND GAS EXTRACTION. | 741 | 33 | 4 665 | 23 225 | 3 227 | 6 566 | 14 688 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 586 | 25 | 3 838 | 19 483 | 2 472 | 4 872 | 11 267 |
| | CRUDE PETROLEUM. | 427 | 10 | 1 756 | 8 534 | 1 247 | 2 499 | 5 076 |
| | NATURAL GAS. | 159 | 15 | 2 082 | 10 949 | 1 225 | 2 383 | 6 191 |
| 138 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 88 | 6 | 578 | 2 980 | 532 | 1 278 | 2 693 |
| 14 | NONMETALLIC MINERALS MINING. | 517 | 105 | 7 964 | 42 388 | 6 548 | 13 706 | 32 548 |
| | MINERAL INDUSTRIES. | 372 | 75 | ⁶ 135 | ³³ 127 | ⁴ 773 | 10 121 | 23 670 |
| | INCLUDED IN MANUFACTURES. | 145 | 30 | ¹ 1 829 | ¹⁹ 261 | ¹ 1 775 | 3 585 | 8 878 |
| 1411 | DIMENSION STONE. | 62 | 10 | 764 | 3 179 | 694 | 1 375 | 2 726 |
| | MINERAL SUBINDUSTRY. | 36 | 2 | 194 | 584 | 173 | 309 | 514 |
| | INCLUDED IN MANUFACTURES. | 26 | 8 | 570 | 2 595 | 516 | 1 066 | 2 212 |
| | DIMENSION GRANITE. | 5 | 1 | 62 | 339 | 52 | 99 | 257 |
| | DIMENSION STONE, N.E.C. | 54 | 9 | 699 | 2 830 | 638 | 1 268 | 2 459 |
| | MINERAL SUBINDUSTRY. | 31 | 2 | 181 | 546 | 166 | 286 | 478 |
| | INCLUDED IN MANUFACTURES. | 23 | 7 | 517 | 2 274 | 472 | 982 | 1 991 |
| 1421 | CRUSHED AND BROKEN STONE. | 214 | 69 | 4 442 | 24 323 | 3 752 | 8 043 | 19 323 |
| | MINERAL INDUSTRY. | 179 | 54 | 3 704 | 20 036 | 3 014 | 6 567 | 15 036 |
| | INCLUDED IN MANUFACTURES. | 35 | 15 | 1738 | 14 287 | 1 738 | 1 476 | 4 287 |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY. | 119 | 40 | 2 749 | 15 075 | 2 202 | 4 851 | 11 232 |
| 1441 | SAND AND GRAVEL. | 125 | 19 | 1 604 | 8 712 | 1 365 | 2 358 | 7 172 |
| | MINERAL INDUSTRY. | 94 | 16 | 1 468 | 8 224 | 1 229 | 2 585 | 6 684 |
| | INCLUDED IN MANUFACTURES. | 31 | 2 | ¹ 136 | ¹ 488 | ¹ 136 | 273 | 488 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 85 | 14 | 1 118 | 6 199 | 952 | 1 980 | 5 153 |
| | INDUSTRIAL SAND SUBINDUSTRIES ⁶ | 9 | 2 | 350 | 2 025 | 277 | 605 | 1 531 |
| 145 | CLAY AND RELATED MINERALS. | 94 | 8 | 675 | 3 083 | 645 | 1 234 | 2 960 |
| | MINERAL INDUSTRY. | 42 | 3 | 290 | 1 192 | 260 | 464 | 1 069 |
| | INCLUDED IN MANUFACTURES. | 53 | 5 | 1385 | ¹ 1 891 | 1385 | 770 | 1 891 |
| 1453 | FIRE CLAY, MINERAL INDUSTRY. | 38 | 3 | 238 | 997 | 215 | 392 | 912 |
| | CLAY AND RELATED MINERALS, N.E.C. | 34 | 2 | 1244 | ¹ 1 163 | 1237 | 463 | 1 125 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 585 333 | ⁴ 428 779 | 1928 362 | 85 750 | 76 068 | 608 935 |
| | MINERAL INDUSTRIES | 555 346 | 420 121 | 889 863 | 85 604 | 73 993 | 579 743 |
| | INCLUDED IN MANUFACTURES | 29 987 | ⁴ 8 658 | ¹ 38 499 | ¹ 146 | ¹² 075 | 29 192 |
| 10 | METAL MINING | 31 314 | 17 779 | 47 892 | 1 200 | 1 842 | 10 601 |
| 11 | ANTHRACITE MINING | 120 540 | 131 082 | 236 511 | 15 111 | ³ 22 813 | 164 489 |
| 111 | ANTHRACITE | 110 527 | 123 097 | 220 973 | 12 651 | 19 712 | 142 198 |
| 1112 | ANTHRACITE MINING SERVICES | 10 013 | 7 985 | 15 538 | 2 460 | ³ 13 101 | 22 291 |
| 12 | BITUMINOUS COAL MINING | 280 982 | 210 082 | 446 349 | 44 715 | 37 356 | 291 778 |
| 1211 | BITUMINOUS COAL | 275 840 | 206 899 | 438 865 | 43 874 | 36 791 | 286 384 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 5 142 | 3 183 | 7 484 | 841 | 565 | 5 394 |
| 13 | OIL AND GAS EXTRACTION | 50 244 | 23 613 | 59 832 | 14 025 | 5 483 | 51 770 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 42 443 | 18 039 | 47 377 | 13 105 | 4 204 | 39 181 |
| | CRUDE PETROLEUM | 18 056 | 6 180 | 22 008 | 2 228 | 2 735 | 22 006 |
| | NATURAL GAS | 24 387 | 11 859 | 25 369 | 10 877 | 1 469 | 17 175 |
| 138 | OIL AND GAS FIELD SERVICES: | | | | | | |
| 1381 | DRILLING OIL AND GAS WELLS | 5 872 | 3 857 | 9 978 | 751 | 991 | 10 685 |
| 14 | NONMETALLIC MINERALS MINING | 102 253 | ⁴ 46 224 | 1137 779 | ⁵ 10 699 | 8 594 | 90 297 |
| | MINERAL INDUSTRIES | 72 266 | 37 566 | 99 279 | 10 553 | 6 499 | 61 105 |
| | INCLUDED IN MANUFACTURES | 29 987 | ⁴ 8 658 | ¹ 38 499 | 146 | ¹² 075 | 29 192 |
| 1411 | DIMENSION STONE | 4 272 | 2 463 | 6 503 | 232 | 821 | 4 237 |
| | MINERAL INDUSTRY | 927 | 320 | 1 161 | 86 | 196 | 1 089 |
| | INCLUDED IN MANUFACTURES | 3 345 | 2 143 | 5 342 | 146 | 625 | 3 149 |
| | DIMENSION GRANITE | 437 | 361 | 770 | 28 | (NA) | (NA) |
| | DIMENSION STONE, N.E.C. | 3 908 | 2 097 | 5 704 | 201 | 775 | 3 964 |
| | MINERAL SUBINDUSTRY | 904 | 283 | 1 104 | 83 | 158 | 850 |
| | INCLUDED IN MANUFACTURES | 2 904 | 1 814 | 4 600 | 118 | 617 | 3 114 |
| 1421 | CRUSHED AND BROKEN STONE | 64 531 | ⁴ 30 594 | ¹ 87 762 | (NA) | 5 344 | 65 275 |
| | MINERAL INDUSTRY | 48 403 | 26 151 | 67 201 | ⁷ 353 | 4 355 | 44 324 |
| | INCLUDED IN MANUFACTURES | 16 128 | ⁴ 4 433 | ¹ 20 561 | (NA) | ¹ 989 | 20 951 |
| | CRUSHED AND BROKEN LIMESTONE: | | | | | | |
| | MINERAL SUBINDUSTRY | 37 141 | 19 264 | 50 337 | 6 068 | 3 577 | 36 114 |
| 1441 | SAND AND GRAVEL | 20 841 | ⁴ 7 815 | ¹ 26 135 | (NA) | 1 480 | 13 590 |
| | MINERAL INDUSTRY | 18 100 | 7 448 | 23 027 | 2 521 | 1 330 | 11 732 |
| | INCLUDED IN MANUFACTURES | 2 741 | ⁴ 367 | ¹ 3 108 | (NA) | ¹ 150 | 1 808 |
| | CONSTRUCTION SAND AND GRAVEL | | | | | | |
| | SUBINDUSTRY | 14 144 | 6 147 | 12 016 | 2 275 | ⁶ 964 | ⁶ 8 976 |
| | INDUSTRIAL SAND SUBINDUSTRIES ⁶ | 3 956 | 1 301 | 5 011 | 246 | ⁶ 366 | ⁷ 2 906 |
| 145 | CLAY AND RELATED MINERALS | 11 569 | 3 506 | 14 551 | (NA) | 663 | 8 409 |
| | MINERAL INDUSTRY | 3 796 | 1 791 | 5 063 | 524 | 352 | 3 125 |
| | INCLUDED IN MANUFACTURES | 7 773 | ⁴ 1 715 | ¹ 9 488 | (NA) | ¹ 311 | 5 284 |
| 1453 | FIRE CLAY, MINERAL INDUSTRIES | 3 032 | 1 573 | 4 217 | 388 | 337 | 2 952 |
| | CLAY AND RELATED MINERALS, N.E.C. | 4 067 | ⁴ 1 186 | ¹ 5 209 | (NA) | ¹ 137 | 2 471 |

Note: See appendix A for explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Includes figures for separately reported central offices and related facilities in Massachusetts.³Includes figures for separately reported central offices and related facilities in New York.⁴For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.⁵Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁶Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C., Subindustries.⁷Figures for the Industrial Sand, N.E.C., Subindustry are included with those for the Construction Sand and Gravel Subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|---|--------------------|--|---|-------------------------------|--|----------------------|--|---|---|----------------------|--|--------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and pur- chased fuels and electric energy (\$1,000) | Minerals received for prepa- ration (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other con- struction, machinery, and equipment ² (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. . . | 420 121 | 159 634 | 143 361 | 57 694 | 59 432 | 85 604 | 9 427 | 76 177 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 17 778 | 7 811 | 8 160 | - | 1 807 | 1 200 | 239 | 961 | (x) | (x) | (x) | (x) |
| 11 | ANTHRACITE MINING. | 131 082 | 35 874 | 63 919 | 22 230 | 9 059 | 15 111 | 939 | 14 172 | (x) | (x) | (x) | (x) |
| 1111 | ANTHRACITE. | 123 097 | 31 032 | 63 919 | 21 336 | 6 810 | 12 651 | 939 | 11 712 | 18 353 | 155 899 | - | - |
| 1112 | ANTHRACITE MINING SERVICES. . . | 7 985 | 4 842 | - | 894 | 2 249 | 2 460 | - | 2 460 | (x) | 15 538 | (x) | 87 |
| 12 | BITUMINOUS COAL MINING. . . . | 210 082 | 83 324 | 68 156 | 21 596 | 37 006 | 44 715 | 1 201 | 43 514 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL. | 206 899 | 81 092 | 68 156 | 21 376 | 36 275 | 43 874 | 1 201 | 42 673 | ³ 71 886 | ³ 362 593 | (³) | (³) |
| 1212 | BITUMINOUS COAL MINING SERVICES. | 3 183 | 2 232 | - | 220 | 731 | 841 | - | 841 | (x) | ⁴ 7 149 | (x) | (⁴) |
| 13 | OIL AND GAS EXTRACTION. . . . | 23 613 | 9 484 | 777 | 9 646 | 3 706 | 14 025 | 6 872 | 7 153 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 18 039 | 6 074 | - | 8 877 | 3 088 | 13 105 | 6 786 | 6 319 | (x) | 46 458 | (x) | 425 |
| | CRUDE PETROLEUM. | 6 180 | 3 430 | - | 2 301 | 449 | 2 228 | 1 242 | 986 | ⁵ 4 791 | 21 191 | ⁷ 0 | 242 |
| | NATURAL GAS. | 11 859 | 2 644 | - | 6 576 | 2 639 | 10 877 | 5 544 | 5 333 | 85 181 | 24 904 | 2 273 | 546 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS. | 3 857 | 2 947 | - | 443 | 467 | 751 | 86 | 665 | (x) | ⁴ 8 520 | (x) | (⁴) |
| 14 | NONMETALLIC MINERALS MINING. . | 37 566 | 23 141 | 2 349 | 4 222 | 7 854 | 10 553 | 176 | 10 377 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . . | 26 151 | 16 043 | 1 698 | 3 281 | 5 129 | 7 353 | 94 | 7 259 | 35 647 | 62 014 | ⁶ 4 047 | ⁶ 6 891 |
| | CRUSHED AND BROKEN LIME-STONE SUBINDUSTRY. | 19 264 | 10 896 | 1 596 | 2 811 | 3 961 | 6 068 | 54 | 6 014 | 27 560 | 45 804 | ⁶ 3 640 | ⁶ 6 390 |
| 1441 | SAND AND GRAVEL. | 7 448 | ⁷ 4 778 | (⁷) | 689 | 1 981 | 2 521 | 51 | 2 470 | 12 553 | ⁸ 25 694 | ⁹ 1 798 | (⁸) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 6 147 | ⁷ 4 203 | (⁷) | 596 | 1 348 | 2 275 | 51 | 2 224 | 11 090 | ⁸ 20 320 | ⁶ 3 279 | (⁸) |
| 145 | CLAY AND RELATED MINERALS. . . | 1 791 | 1 001 | - | 226 | 564 | 524 | 24 | 500 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.⁴Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁵Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁶Excludes figures for minerals produced and used in the same establishment.⁷The cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.⁸Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 5.⁹Includes data for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|-------------------------------------|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 3 168 | 3 098 | 2 397 | 1 383 | 396 | 618 | 577 | 113 | 361 | 103 | 124 | 70 |
| | NUMBER OF EMPLOYEES..... | ¹ 46 544 | ¹ 46 394 | 16 087 | (D) | (D) | 4 758 | 26 233 | 13 898 | 7 082 | 5 253 | 2 088 | 150 |
| | VALUE ADDED IN MINING.....\$1,000.. | 532 459 | 534 955 | 168 741 | (D) | (D) | 56 455 | 340 040 | 183 595 | 91 902 | 64 543 | 26 174 | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 9 | 6 | - | - | - | - | 3 | 3 | - | - | 3 | 3 |
| | NUMBER OF EMPLOYEES..... | ³ 2 058 | (D) | - | - | - | - | (D) | (D) | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 31 314 | (D) | - | - | - | - | (D) | (D) | - | - | (D) | (D) |
| 11 | ANTHRACITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 026 | 1 021 | 869 | 748 | 82 | 39 | 73 | 10 | 14 | 49 | 79 | 5 |
| | NUMBER OF EMPLOYEES..... | ⁴ 10 692 | ⁴ 10 682 | (D) | 2 509 | (D) | 646 | 4 901 | 672 | 738 | 3 491 | (D) | 10 |
| | VALUE ADDED IN MINING.....\$1,000.. | 110 527 | 110 545 | (D) | 23 048 | (D) | 7 356 | 53 137 | 3 674 | 9 574 | 39 889 | (D) | (²) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 174 | 1 166 | 908 | 630 | 234 | 44 | 228 | 98 | 88 | 42 | 30 | 8 |
| | NUMBER OF EMPLOYEES..... | 23 957 | ¹ 23 935 | 7 765 | 5 554 | 1 838 | 373 | 14 639 | 11 311 | 1 972 | 1 356 | 503 | 22 |
| | VALUE ADDED IN MINING.....\$1,000.. | 275 840 | 276 920 | 77 354 | 48 564 | 23 517 | 5 273 | 193 137 | 149 986 | 26 706 | 16 445 | 6 429 | (²) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 591 | 540 | 535 | - | - | 535 | - | - | - | - | 5 | 51 |
| | NUMBER OF EMPLOYEES..... | 3 853 | 3 754 | 3 739 | - | - | 3 739 | - | - | - | - | 15 | 99 |
| | VALUE ADDED IN MINING.....\$1,000.. | 42 602 | 43 985 | 43 826 | - | - | 43 826 | - | - | - | - | 159 | (²) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 368 | 365 | 85 | 5 | 80 | - | 273 | 2 | 259 | 12 | 7 | 3 |
| | NUMBER OF EMPLOYEES..... | 6 121 | (D) | (D) | (D) | (D) | - | (D) | (D) | 4 372 | 406 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 72 176 | (D) | (D) | (D) | (D) | - | (D) | (D) | 55 622 | 8 209 | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 179 | 177 | 7 | - | 7 | - | 167 | 2 | 163 | 2 | 3 | 2 |
| | NUMBER OF EMPLOYEES..... | 3 704 | (D) | 50 | - | 50 | - | 3 357 | (D) | 3 224 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 48 403 | (D) | 322 | - | 322 | - | 44 890 | (D) | 43 121 | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 94 | 94 | 6 | - | 6 | - | 86 | - | 76 | 10 | 2 | - |
| | NUMBER OF EMPLOYEES..... | 1 468 | 1 468 | 28 | - | 28 | - | (D) | - | 1 012 | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 18 100 | 18 100 | 247 | - | 247 | - | (D) | - | 11 421 | (D) | (D) | - |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 42 | 42 | 34 | 5 | 29 | - | 9 | - | 9 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 290 | 290 | 218 | (D) | (D) | - | 72 | - | 72 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 796 | 3 796 | 3 072 | (D) | (D) | - | 714 | - | 714 | - | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Includes figures for separately reported central offices and related facilities which were not distributed by type of operation.²Not shown since the cost of supplies, purchased fuels and electric energy, contract work, and purchased machinery installed exceeds capital expenditures.³Includes figures for separately reported central offices and related facilities in Massachusetts.⁴Includes figures for separately reported central offices and related facilities in New York.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|---------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 3 550 | 437 | 50 746 | 278 862 | 43 122 | 83 037 | 224 683 | 585 333 | 428 779 | 928 362 | 85 750 | 76 068 | 608 935 |
| | MINERAL INDUSTRIES | 3 405 | 407 | 48 917 | 269 601 | 41 347 | 79 452 | 215 805 | 555 346 | 420 121 | 889 863 | 85 604 | 73 993 | 579 743 |
| | INCLUDED IN MANUFACTURES ² | 145 | 30 | 1 829 | 9 261 | 1 775 | 3 585 | 8 878 | 29 987 | 8 658 | 38 499 | 146 | 2 075 | 29 192 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| 14 | ADAMS COUNTY, TOTAL | 7 | 2 | 316 | 1 722 | 262 | 542 | 1 359 | 4 957 | 4 286 | 9 000 | 243 | 309 | 4 802 |
| | NONMETALLIC MINERALS MINING | 7 | 2 | 316 | 1 722 | 262 | 542 | 1 359 | 4 957 | 4 286 | 9 000 | 243 | 309 | 4 802 |
| | ALLEGHENY COUNTY, TOTAL | 115 | 12 | 2 401 | 17 012 | 1 586 | 2 886 | 9 458 | 24 244 | 25 145 | 47 238 | 2 151 | 3 237 | (NA) |
| | BITUMINOUS COAL MINING | 57 | 9 | 1 638 | 10 543 | 1 445 | 2 604 | 8 793 | 23 254 | 23 899 | 45 378 | 1 775 | 2 957 | 26 655 |
| | OIL AND GAS EXTRACTION | 47 | 3 | 218 | 1 389 | 102 | 213 | 506 | 812 | 756 | 1 207 | 361 | 147 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 36 | 3 | 179 | 1 211 | 77 | 158 | 395 | 584 | 712 | 956 | 340 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 11 | - | 47 | 192 | 39 | 69 | 159 | 178 | 490 | 653 | 15 | (NA) | (NA) |
| | ARMSTRONG COUNTY, TOTAL | 160 | 17 | 1 384 | 7 103 | 1 233 | 2 380 | 6 199 | 18 776 | 8 087 | 23 897 | 2 966 | 1 430 | (NA) |
| 12 | BITUMINOUS COAL MINING | 85 | 15 | 1 125 | 6 057 | 1 035 | 1 943 | 5 455 | 13 908 | 6 279 | 18 565 | 1 622 | 951 | 8 163 |
| 1211 | BITUMINOUS COAL | 79 | 14 | 1 087 | 5 851 | 1 001 | 1 872 | 5 280 | 13 414 | 6 082 | 17 957 | 1 539 | (NA) | (NA) |
| 1213 | COAL MINING SERVICES, NEC. | 6 | 1 | 38 | 206 | 34 | 71 | 175 | 494 | 197 | 608 | 83 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 66 | - | 166 | 673 | 133 | 285 | 546 | 4 121 | 1 417 | 4 329 | 1 209 | 292 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 47 | - | 108 | 471 | 84 | 169 | 367 | 3 828 | 1 135 | 3 826 | 1 137 | 200 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 9 | 2 | 75 | 247 | 65 | 152 | 198 | 747 | 391 | 1 003 | 135 | 187 | 1 963 |
| 142 | CRUSHED AND BROKEN STONE | 5 | 2 | 58 | 140 | 51 | 125 | 125 | 436 | 184 | 555 | 65 | (NA) | (NA) |
| 12 | BEAVER COUNTY, TOTAL | 29 | 1 | 202 | 1 159 | 174 | 370 | 953 | 3 070 | 2 307 | 4 506 | 871 | 164 | (NA) |
| | BITUMINOUS COAL MINING | 19 | - | 126 | 688 | 107 | 230 | 574 | 1 742 | 1 482 | 2 925 | 299 | 103 | 631 |
| | BEDFORD COUNTY, TOTAL | 34 | 4 | 288 | 1 558 | 254 | 588 | 1 255 | 5 334 | 2 844 | 6 164 | 2 014 | 265 | 1 823 |
| 13 | OIL AND GAS EXTRACTION | 10 | 1 | 47 | 347 | 45 | 119 | 333 | 2 797 | 1 878 | 3 209 | 1 466 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 3 | - | 14 | 87 | 13 | 27 | 81 | 2 412 | 1 272 | 2 296 | 1 388 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 7 | 1 | 33 | 260 | 32 | 92 | 252 | 385 | 606 | 913 | 78 | (NA) | (NA) |
| | BERKS COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | 15 | 4 | 242 | 1 258 | 206 | 452 | 988 | 2 374 | 1 610 | 3 678 | 306 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 11 | 4 | 229 | 1 218 | 194 | 430 | 949 | 2 293 | 1 518 | 3 521 | 290 | (NA) | (NA) |
| 14 | BLAIR COUNTY, TOTAL | 18 | 1 | 123 | 457 | 107 | 190 | 399 | 770 | 497 | 1 158 | 109 | 156 | 1 154 |
| | NONMETALLIC MINERALS MINING | 11 | - | 86 | 343 | 73 | 145 | 294 | 605 | 375 | 885 | 95 | 106 | 763 |
| | CRUSHED AND BROKEN STONE | 7 | - | 65 | 276 | 53 | 118 | 235 | 482 | 342 | 738 | 86 | (NA) | (NA) |
| | BRADFORD COUNTY, TOTAL | 5 | - | 17 | 85 | 13 | 38 | 59 | 281 | 164 | 398 | 47 | (NA) | (NA) |
| | BUCKS COUNTY, TOTAL | 19 | 4 | 378 | 2 172 | 331 | 631 | 1 743 | 8 691 | 2 035 | 9 582 | 1 144 | (NA) | (NA) |
| | BUTLER COUNTY, TOTAL | 111 | 8 | 744 | 3 668 | 683 | 1 422 | 3 420 | 7 040 | 6 939 | 12 613 | 1 366 | 957 | (NA) |
| 12 | BITUMINOUS COAL MINING | 54 | 5 | 487 | 2 439 | 454 | 956 | 2 328 | 5 241 | 5 722 | 9 924 | 1 039 | 724 | 6 472 |
| 1211 | BITUMINOUS COAL | 50 | 5 | 457 | 2 250 | 427 | 875 | 2 161 | 4 713 | 5 264 | 9 011 | 966 | 674 | 6 063 |
| 1213 | COAL MINING SERVICES, NEC. | 4 | - | 30 | 189 | 27 | 81 | 167 | 528 | 458 | 913 | 73 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 50 | 1 | 169 | 808 | 148 | 293 | 719 | 481 | 547 | 875 | 153 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 38 | 1 | 155 | 762 | 134 | 268 | 673 | 374 | 428 | 666 | 136 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 7 | 2 | 88 | 421 | 81 | 173 | 373 | 1 318 | 670 | 1 814 | 174 | 116 | 654 |
| 142 | CRUSHED AND BROKEN STONE | 3 | 1 | 49 | 249 | 43 | 93 | 208 | 640 | 461 | 996 | 105 | 98 | 538 |
| 12 | CAMBRIA COUNTY, TOTAL | 152 | 21 | 3 152 | 18 910 | 2 764 | 4 862 | 15 627 | 28 570 | 23 713 | 39 829 | 12 454 | 6 749 | 40 737 |
| | BITUMINOUS COAL MINING | 142 | 21 | 3 028 | 17 825 | 2 753 | 4 838 | 15 573 | 28 380 | 23 647 | 39 602 | 12 425 | 6 745 | 40 729 |
| | CAMERON COUNTY, TOTAL | 17 | - | 21 | 119 | 16 | 36 | 92 | 1 100 | 722 | 1 633 | 189 | 37 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 12 | - | 11 | 64 | 6 | 13 | 40 | 968 | 433 | 1 295 | 106 | (NA) | (NA) |
| | CARBON COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 11 | ANTHRACITE MINING | 20 | 6 | 318 | 1 590 | 291 | 540 | 1 452 | 3 565 | 1 977 | 5 457 | 85 | 460 | 2 546 |
| 12 | CENTRE COUNTY, TOTAL | 42 | 5 | 416 | 1 763 | 372 | 790 | 1 545 | 4 235 | 2 842 | 5 942 | 1 135 | 523 | 3 824 |
| | BITUMINOUS COAL MINING | 35 | 4 | 364 | 1 524 | 330 | 684 | 1 364 | 3 700 | 2 439 | 5 216 | 923 | 390 | 2 715 |
| 14 | CHESTER COUNTY, TOTAL | 8 | 3 | 276 | 1 904 | 126 | 273 | 653 | 1 794 | 1 590 | 2 385 | 999 | 154 | 2 029 |
| | NONMETALLIC MINERALS MINING | 8 | 3 | 149 | 811 | 126 | 273 | 653 | 1 794 | 1 590 | 2 385 | 999 | 154 | 2 029 |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 12 | CLARION COUNTY, TOTAL | 89 | 16 | 824 | 3 785 | 695 | 1 745 | 3 268 | 10 880 | 7 145 | 14 875 | 3 150 | (NA) | (NA) |
| 1211 | BITUMINOUS COAL MINING | 33 | 12 | 600 | 2 851 | 536 | 1 400 | 2 567 | 8 927 | 6 302 | 12 545 | 2 684 | 753 | 6 895 |
| 131 | BITUMINOUS COAL | 33 | 12 | 600 | 2 851 | 536 | 1 400 | 2 567 | 8 927 | 6 302 | 12 545 | 2 684 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 33 | 2 | 114 | 468 | 60 | 135 | 305 | 973 | 366 | 996 | 343 | (NA) | (NA) |
| | CLEARFIELD COUNTY, TOTAL | 210 | 31 | 2 263 | 9 901 | 2 056 | 3 944 | 8 921 | 26 164 | 18 583 | 41 275 | 3 472 | 2 931 | (NA) |
| 12 | BITUMINOUS COAL MINING | 174 | 29 | 2 073 | 9 040 | 1 919 | 3 688 | 8 353 | 22 394 | 17 026 | 36 643 | 2 777 | 2 545 | 17 411 |
| 1211 | BITUMINOUS COAL | 161 | 28 | 1 968 | 8 537 | 1 821 | 3 472 | 7 883 | 21 219 | 16 121 | 34 973 | 2 367 | 2 418 | 16 366 |
| 1213 | COAL MINING SERVICES, NEC | 13 | 1 | 105 | 503 | 98 | 216 | 470 | 1 175 | 905 | 1 670 | 410 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 22 | - | 64 | 385 | 37 | 83 | 202 | 1 824 | 660 | 2 101 | 383 | 225 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 50 | 305 | 24 | 52 | 129 | 1 718 | 552 | 1 898 | 372 | 62 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 14 | 2 | 122 | 447 | 100 | 173 | 366 | 1 946 | 897 | 2 531 | 312 | 161 | 1 703 |
| | CLINTON COUNTY, TOTAL | 15 | 2 | 105 | 563 | 94 | 220 | 502 | 1 477 | 956 | 2 200 | 233 | 203 | (NA) |
| 12 | BITUMINOUS COAL MINING | 7 | 2 | 81 | 429 | 72 | 167 | 382 | 1 222 | 657 | 1 728 | 151 | 135 | 1 602 |
| | COLUMBIA COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 11 | ANTHRACITE MINING | 52 | 2 | 181 | 701 | 158 | 278 | 606 | 1 889 | 1 104 | 2 800 | 193 | 765 | 5 386 |
| | CRAWFORD COUNTY, TOTAL | 27 | 2 | 115 | 583 | 68 | 162 | 364 | 87 | 1 380 | 1 151 | 316 | 49 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | 1 | 31 | 187 | 30 | 90 | 187 | 346 | 383 | 718 | 11 | (NA) | (NA) |
| | CUMBERLAND COUNTY, TOTAL | 7 | - | 67 | 330 | 54 | 116 | 264 | 1 184 | 402 | 1 357 | 229 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 7 | - | 67 | 330 | 54 | 116 | 264 | 1 184 | 402 | 1 357 | 229 | 76 | 378 |
| 142 | CRUSHED AND BROKEN STONE | 3 | - | 46 | 235 | 34 | 79 | 173 | 769 | 317 | 967 | 119 | (NA) | (NA) |
| | DAUPHIN COUNTY, TOTAL | 53 | 3 | 180 | 798 | 165 | 308 | 698 | 2 063 | 2 654 | 4 577 | 140 | 356 | 2 947 |
| 11 | ANTHRACITE MINING | 50 | 2 | 106 | 345 | 100 | 181 | 335 | 1 382 | 2 276 | 3 539 | 119 | (NA) | (NA) |
| 1111 | ANTHRACITE | 50 | 2 | 106 | 345 | 100 | 181 | 335 | 1 382 | 2 276 | 3 539 | 119 | 140 | 906 |
| | DELAWARE COUNTY, TOTAL | 9 | 2 | 143 | 772 | 114 | 237 | 602 | 1 839 | 576 | 2 253 | 162 | (NA) | (NA) |
| | ELK COUNTY, TOTAL | 53 | 5 | 333 | 1 612 | 235 | 456 | 1 104 | 2 687 | 1 929 | 4 025 | 591 | 332 | (NA) |
| 12 | BITUMINOUS COAL MINING | 25 | 3 | 138 | 601 | 131 | 245 | 584 | 1 144 | 523 | 1 620 | 47 | 197 | 1 438 |
| 1211 | BITUMINOUS COAL | 25 | 3 | 138 | 601 | 131 | 245 | 584 | 1 144 | 523 | 1 620 | 47 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 20 | 2 | 182 | 947 | 92 | 188 | 462 | 1 309 | 968 | 1 746 | 531 | 117 | (NA) |
| | ERIE COUNTY, TOTAL | 22 | 1 | 125 | 1 014 | 114 | 256 | 946 | 2 384 | 873 | 2 834 | 423 | 36 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 6 | - | 27 | 188 | 25 | 78 | 172 | 478 | 423 | 769 | 132 | (NA) | (NA) |
| | FAYETTE COUNTY, TOTAL | 82 | 5 | 930 | 5 621 | 817 | 1 510 | 4 773 | 10 994 | 30 723 | 40 359 | 1 358 | 2 164 | (NA) |
| 12 | BITUMINOUS COAL MINING | 57 | 4 | 775 | 4 789 | 693 | 1 242 | 4 163 | 8 965 | 29 311 | 37 498 | 778 | 2 050 | 17 327 |
| 1211 | BITUMINOUS COAL | 57 | 4 | 775 | 4 789 | 693 | 1 242 | 4 163 | 8 965 | 29 311 | 37 498 | 778 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 10 | - | 38 | 218 | 24 | 47 | 141 | 435 | 372 | 503 | 304 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 7 | - | 16 | 75 | 14 | 28 | 64 | 186 | 203 | 329 | 60 | (NA) | (NA) |
| | FRANKLIN COUNTY, TOTAL | 10 | 2 | 175 | 1 003 | 108 | 264 | 458 | 1 716 | 603 | 1 885 | 434 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 10 | 2 | 119 | 549 | 108 | 264 | 458 | 1 716 | 603 | 1 885 | 434 | 112 | 1 006 |
| | GREENE COUNTY, TOTAL | 69 | 8 | 3 644 | 22 512 | 3 275 | 5 895 | 18 995 | 47 338 | 18 149 | 58 422 | 7 065 | 5 786 | (NA) |
| 12 | BITUMINOUS COAL MINING | 19 | 8 | 3 507 | 21 976 | 3 166 | 5 673 | 18 569 | 46 248 | 17 886 | 57 232 | 6 902 | 5 601 | 47 378 |
| 13 | OIL AND GAS EXTRACTION | 50 | - | 137 | 536 | 109 | 222 | 426 | 1 090 | 263 | 1 190 | 163 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 44 | - | 118 | 458 | 90 | 178 | 348 | 972 | 233 | 1 051 | 154 | 166 | (NA) |
| | HUNTINGDON COUNTY, TOTAL | 12 | 1 | 273 | 1 536 | 226 | 498 | 1 226 | 3 226 | 1 185 | 4 113 | 298 | 324 | 3 819 |
| | INDIANA COUNTY, TOTAL | 154 | 22 | 2 326 | 14 006 | 1 998 | 3 821 | 11 566 | 25 540 | 21 456 | 42 007 | 4 989 | 3 413 | (NA) |
| 12 | BITUMINOUS COAL MINING | 103 | 20 | 1 938 | 11 422 | 1 835 | 3 442 | 10 692 | 20 912 | 19 534 | 37 366 | 3 080 | 3 140 | 22 215 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 26 | 1 | 95 | 599 | 77 | 159 | 449 | 3 053 | 921 | 2 369 | 1 605 | 138 | (NA) |
| | JEFFERSON COUNTY, TOTAL | 95 | 14 | 853 | 4 138 | 727 | 1 451 | 3 274 | 8 331 | 5 817 | 12 463 | 1 685 | 936 | (NA) |
| 12 | BITUMINOUS COAL MINING | 66 | 9 | 587 | 2 680 | 547 | 1 059 | 2 284 | 5 930 | 4 687 | 9 739 | 878 | 792 | 4 492 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 20 | 4 | 216 | 1 129 | 130 | 258 | 661 | 2 234 | 972 | 2 414 | 792 | 131 | (NA) |
| | LACKAWANNA COUNTY, TOTAL | 70 | 11 | 1 312 | 6 795 | 973 | 1 834 | 4 522 | 9 467 | 9 758 | 18 511 | 714 | 3 638 | (NA) |
| 11 | ANTHRACITE MINING | 66 | 11 | 1 030 | 5 021 | 950 | 1 783 | 4 420 | 9 259 | 9 646 | 18 200 | 705 | 3 433 | 18 143 |
| 1111 | ANTHRACITE | 58 | 9 | 897 | 4 243 | 829 | 1 541 | 3 760 | 7 736 | 8 758 | 15 909 | 585 | 3 232 | 15 967 |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 1112 | ANTHRACITE MINING SERVICES | 8 | 2 | 133 | 778 | 121 | 242 | 660 | 1 523 | 888 | 2 291 | 120 | (NA) | (NA) |
| | LANCASTER COUNTY, TOTAL | 20 | 7 | 329 | 1 629 | 220 | 533 | 1 183 | 7 112 | 2 365 | 8 933 | 544 | 373 | 3 602 |
| 142 | CRUSHED AND BROKEN STONE | 14 | 6 | 250 | 1 159 | 146 | 360 | 753 | 5 284 | 1 888 | 6 786 | 386 | 275 | 2 063 |
| | LAWRENCE COUNTY, TOTAL | 30 | 6 | 534 | 3 189 | 454 | 917 | 2 456 | 6 147 | 4 874 | 10 198 | 823 | 728 | (NA) |
| 12 | BITUMINOUS COAL MINING | 17 | 3 | 182 | 808 | 168 | 323 | 753 | 2 177 | 1 755 | 3 590 | 342 | 219 | 3 341 |
| 14 | NONMETALLIC MINERALS MINING | 10 | 3 | 337 | 2 262 | 284 | 590 | 1 702 | 3 971 | 3 101 | 6 592 | 480 | 507 | 5 850 |
| 142 | CRUSHED AND BROKEN STONE | 5 | 3 | 295 | 2 046 | 245 | 512 | 1 496 | 3 588 | 2 976 | 6 115 | 449 | (NA) | (NA) |
| | LUZERNE COUNTY, TOTAL | 102 | 30 | 4 623 | 24 061 | 4 058 | 7 769 | 20 422 | 47 259 | 36 454 | 81 225 | 2 488 | 8 379 | 52 772 |
| 11 | ANTHRACITE MINING | 88 | 29 | 4 221 | 22 406 | 3 950 | 7 552 | 19 964 | 45 982 | 35 880 | 79 559 | 2 303 | 8 254 | 51 980 |
| 1111 | ANTHRACITE | 71 | 23 | 3 811 | 20 326 | 3 577 | 6 900 | 18 187 | 42 156 | 32 584 | 73 326 | 1 414 | 7 354 | 45 841 |
| 1112 | ANTHRACITE MINING SERVICES | 17 | 6 | 410 | 2 080 | 373 | 652 | 1 777 | 3 826 | 3 296 | 6 233 | 889 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 5 | 1 | 49 | 238 | 42 | 79 | 205 | 390 | 142 | 503 | 29 | (NA) | (NA) |
| | LYCOMING COUNTY, TOTAL | 10 | 2 | 112 | 599 | 99 | 246 | 513 | 838 | 1 192 | 1 825 | 205 | 203 | 1 481 |
| | MCKEAN COUNTY, TOTAL | 243 | 10 | 1 392 | 6 738 | 1 051 | 2 143 | 4 746 | 15 367 | 4 658 | 18 918 | 1 107 | 1 886 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 237 | 10 | 1 296 | 5 949 | 1 034 | 2 108 | 4 678 | 15 153 | 4 584 | 18 678 | 1 059 | 1 868 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 185 | 7 | 1 093 | 5 139 | 847 | 1 731 | 3 947 | 13 266 | 3 809 | 16 154 | 921 | 1 652 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 52 | 3 | 203 | 810 | 187 | 377 | 731 | 1 887 | 775 | 2 524 | 138 | 216 | (NA) |
| | MERCER COUNTY, TOTAL | 26 | 5 | 312 | 1 784 | 229 | 497 | 1 327 | 3 293 | 2 370 | 5 157 | 506 | 250 | (NA) |
| 12 | BITUMINOUS COAL MINING | 13 | 4 | 175 | 1 041 | 161 | 366 | 959 | 2 762 | 2 156 | 4 557 | 361 | 199 | 2 760 |
| 14 | NONMETALLIC MINERALS MINING | 5 | - | 33 | 190 | 28 | 55 | 156 | 459 | 127 | 529 | 57 | (NA) | (NA) |
| | MONTGOMERY COUNTY, TOTAL | 18 | 4 | 408 | 3 028 | 261 | 553 | 1 390 | 3 649 | 1 341 | 4 715 | 275 | 642 | 5 961 |
| | NORTHAMPTON COUNTY, TOTAL | 6 | 1 | 65 | 420 | 54 | 113 | 336 | 682 | 691 | 1 259 | 114 | 180 | 1 143 |
| 144 | SAND AND GRAVEL | 3 | - | 16 | 100 | 14 | 32 | 92 | 186 | 350 | 507 | 29 | (NA) | (NA) |
| | NORTHUMBERLAND COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 11 | ANTHRACITE MINING | 304 | 10 | 1 162 | 5 250 | 974 | 1 993 | 4 336 | 13 142 | 17 832 | 27 273 | 3 701 | 1 980 | 14 997 |
| 1111 | ANTHRACITE | 297 | 7 | 1 040 | 4 565 | 869 | 1 771 | 3 785 | 11 731 | 16 975 | 25 735 | 2 971 | 1 685 | 13 267 |
| 1112 | ANTHRACITE MINING SERVICES | 7 | 3 | 122 | 685 | 105 | 222 | 551 | 1 411 | 857 | 1 538 | 730 | (NA) | (NA) |
| | PHILADELPHIA, TOTAL | 7 | 3 | 183 | 1 076 | 127 | 264 | 656 | 1 849 | 9 038 | 10 748 | 139 | (NA) | (NA) |
| | POTTER COUNTY, TOTAL | 19 | 1 | 67 | 307 | 39 | 82 | 215 | 895 | 1 119 | 551 | 1 463 | 90 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 16 | 1 | 66 | 305 | 38 | 81 | 213 | 885 | 1 117 | 540 | 1 462 | 86 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 12 | 1 | 47 | 193 | 20 | 49 | 113 | 697 | 1 074 | 313 | 1 458 | (NA) | (NA) |
| | SCHUYLKILL COUNTY, TOTAL | 491 | 43 | 4 315 | 20 799 | 3 860 | 7 084 | 18 455 | 42 241 | 63 461 | 97 869 | 7 833 | 7 663 | 68 743 |
| 11 | ANTHRACITE MINING | 487 | 42 | 4 164 | 20 067 | 3 802 | 7 004 | 18 285 | 43 216 | 61 752 | 97 187 | 7 781 | 7 623 | 68 352 |
| 1111 | ANTHRACITE | 473 | 37 | 3 872 | 18 452 | 3 527 | 6 504 | 16 781 | 40 871 | 59 280 | 92 981 | 7 170 | 6 216 | 57 914 |
| 1112 | ANTHRACITE MINING SERVICES | 14 | 5 | 292 | 1 615 | 275 | 500 | 1 504 | 2 345 | 2 472 | 4 206 | 611 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 1 | 66 | 217 | 58 | 80 | 170 | (⁴) | 1 709 | 682 | 52 | (NA) | (NA) |
| | SOMERSET COUNTY, TOTAL | 156 | 17 | 1 392 | 6 379 | 1 296 | 2 385 | 5 966 | 16 460 | 10 978 | 23 776 | 3 662 | 1 822 | (NA) |
| 12 | BITUMINOUS COAL MINING | 140 | 16 | 1 299 | 5 975 | 1 212 | 2 199 | 5 681 | 15 076 | 9 755 | 21 466 | 3 365 | 1 771 | 10 703 |
| 13 | OIL AND GAS EXTRACTION | 8 | - | 18 | 118 | 15 | 35 | 94 | 909 | 660 | 1 521 | 48 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 5 | - | 8 | 52 | 6 | 14 | 38 | 820 | 628 | 1 413 | 35 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 8 | 1 | 75 | 286 | 69 | 151 | 191 | 475 | 563 | 789 | 249 | (NA) | (NA) |
| | SUSQUEHANNA COUNTY, TOTAL | 9 | 1 | 44 | 178 | 39 | 73 | 144 | 384 | 322 | 529 | 177 | 30 | 259 |
| | TIOGA COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 12 | BITUMINOUS COAL MINING | 9 | 2 | 105 | 510 | 68 | 155 | 332 | 1 153 | 1 545 | 2 344 | 354 | 64 | 787 |
| | VENANGO COUNTY, TOTAL | 110 | 4 | 710 | 3 332 | 405 | 823 | 1 765 | 3 420 | 2 223 | 5 231 | 412 | 690 | (NA) |
| 12 | BITUMINOUS COAL MINING | 9 | 1 | 99 | 536 | 91 | 196 | 463 | 1 042 | 1 157 | 2 061 | 138 | 140 | 1 270 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 80 | 2 | 498 | 2 307 | 242 | 460 | 1 018 | 1 392 | 452 | 1 642 | 202 | 471 | (NA) |
| | WARREN COUNTY, TOTAL | 93 | 1 | 213 | 764 | 176 | 349 | 635 | 1 930 | 1 443 | 2 739 | 634 | 192 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 90 | 1 | 187 | 634 | 153 | 296 | 524 | 1 717 | 1 307 | 2 415 | 609 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--------------------------------------|-----------------------------|--|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more (number) | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 67 | 1 | 149 | 462 | 117 | 223 | 369 | 1 095 | 752 | 1 334 | 513 | 162 | (NA) |
| | WASHINGTON COUNTY, TOTAL | 89 | 16 | 4 036 | 26 016 | 3 405 | 6 356 | 20 895 | 55 706 | 24 007 | 78 271 | 1 442 | 5 651 | (NA) |
| 12 | BITUMINOUS COAL MINING | 44 | 14 | 3 665 | 23 873 | 3 253 | 6 058 | 20 287 | 54 289 | 23 607 | 76 730 | 1 166 | 5 439 | 49 128 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 33 | 2 | 150 | 609 | 126 | 244 | 505 | 1 232 | 240 | 1 212 | 260 | 163 | (NA) |
| | WESTMORELAND COUNTY, TOTAL | 116 | 11 | 1 364 | 8 110 | 1 213 | 2 263 | 6 925 | 20 951 | 7 793 | 23 265 | 5 479 | 2 144 | (NA) |
| 12 | BITUMINOUS COAL MINING | 71 | 7 | 1 152 | 7 033 | 1 041 | 1 908 | 6 085 | 14 944 | 5 846 | 17 843 | 2 947 | 1 936 | 17 300 |
| 1211 | BITUMINOUS COAL. | 71 | 7 | 1 152 | 7 033 | 1 041 | 1 908 | 6 085 | 14 944 | 5 846 | 17 843 | 2 947 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 36 | 2 | 111 | 549 | 77 | 152 | 375 | 4 660 | 1 051 | 4 078 | 1 633 | 145 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 21 | 1 | 67 | 367 | 56 | 108 | 296 | 4 169 | 744 | 3 355 | 1 558 | 112 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 15 | 1 | 44 | 182 | 21 | 44 | 79 | 491 | 307 | 723 | 75 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | 2 | 96 | 472 | 95 | 203 | 465 | 1 347 | 896 | 1 344 | 899 | (NA) | (NA) |
| | YORK COUNTY, TOTAL | 14 | 4 | 313 | 1 856 | 244 | 533 | 1 284 | 3 910 | 1 419 | 4 909 | 420 | 319 | 3 703 |
| 142 | CRUSHED AND BROKEN STONE | 8 | 4 | 274 | 1 665 | 217 | 481 | 1 176 | 3 552 | 1 312 | 4 480 | 384 | 294 | 3 477 |
| | UNDISTRIBUTED, TOTAL | 46 | 1 | 125 | 489 | 116 | 200 | 424 | 831 | 470 | 1 207 | 94 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 46 | 1 | 125 | 489 | 116 | 200 | 424 | 831 | 470 | 1 207 | 94 | 248 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 21 | - | 38 | 146 | 31 | 58 | 105 | 195 | 76 | 230 | 41 | 114 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 25 | 1 | 87 | 343 | 85 | 142 | 319 | 636 | 394 | 977 | 53 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 4.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electric energy, contract work, and purchased machinery installed exceeds value of shipments and capital expenditures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | 101 Iron ores | | | | | | | | | | 109 Miscellaneous metal ores | | | | | | | | | | 138 Oil and gas field services | | | | | | | | | | 145 Clay and related minerals | | | | | | | | | |
|-----------------------------------|--|--|---------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-------------------------------------|------|-----|------|-----|-----|-----|-----|-----|------|---|------|-----|------|-----|------|-----|-----|-----|------|--|--|--|--|--|--|--|--|--|--|
| | | | 110 Copper ores | | | | | | | | | | 110 Anthracite | | | | | | | | | | 141 Dimension stone | | | | | | | | | | 145M Clay and related minerals in manufactures | | | | | | | | | |
| | | | 103 Lead and zinc ores | | | | | | | | | | 111C Anthracite mining services | | | | | | | | | | 141MDimension stone in manufactures | | | | | | | | | | 147 Chemical and fertilizer minerals | | | | | | | | | |
| | | | 104 Gold and silver ores | | | | | | | | | | 120 Bituminous coal and lignite | | | | | | | | | | 142 Crushed and broken stone | | | | | | | | | | 148 Nonmetallic minerals services | | | | | | | | | |
| | | | 105 Bauxite | | | | | | | | | | 12C Coal mining services | | | | | | | | | | 142M Crushed and broken stone in manufactures | | | | | | | | | | 149 Miscellaneous minerals, n.e.c. | | | | | | | | | |
| | | | 106 Ferroalloy ores | | | | | | | | | | 131 Crude petroleum and natural gas | | | | | | | | | | 144 Sand and gravel | | | | | | | | | | 149M Miscellaneous minerals, n.e.c., in manufactures | | | | | | | | | |
| | | | 108 Metal mining services | | | | | | | | | | 132 Natural gas liquids | | | | | | | | | | 144M Sand and gravel in manufactures | | | | | | | | | | | | | | | | | | | |
| State, county, and size class | | | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141M | 142 | 142M | 144 | 144M | 145 | 145M | 147 | 148 | 149 | 149M | | | | | | | | | | |
| PENNSYLVANIA, TOTAL. | | | 3 550 | 3 405 | 145 | 5 | 1 | 1 | - | - | 1 | - | 1 | 1026 | 43 | 1174 | 40 | 586 | 5 | 150 | 36 | 26 | 179 | 35 | 94 | 31 | 42 | 53 | 4 | 4 | 13 | - | | | | | | | | | | |
| NO EMPLOYEES | | | 889 | 886 | 3 | - | - | - | - | - | - | - | 1 | 507 | 2 | 168 | - | 161 | 1 | 19 | 5 | - | 9 | - | 6 | 3 | 5 | - | 1 | - | - | - | | | | | | | | | | |
| 1-4 EMPLOYEES | | | 1 344 | 1 271 | 73 | 1 | 1 | - | - | - | - | - | - | 216 | 7 | 477 | 12 | 345 | 3 | 84 | 22 | 11 | 38 | 9 | 17 | 3 | 9 | 7 | 1 | 1 | 2 | - | | | | | | | | | | |
| 5-9 EMPLOYEES | | | 488 | 473 | 15 | - | - | - | - | - | - | - | - | 119 | 8 | 212 | 11 | 44 | 1 | 24 | 4 | 1 | 20 | 4 | 17 | 3 | 9 | 2 | - | - | - | - | | | | | | | | | | |
| 10-19 EMPLOYEES | | | 392 | 368 | 24 | - | - | - | - | - | - | - | - | 99 | 9 | 131 | 12 | 11 | - | 15 | 3 | 6 | 58 | 7 | 20 | 2 | 6 | 9 | 2 | - | - | - | | | | | | | | | | |
| 20-49 EMPLOYEES | | | 263 | 241 | 22 | 1 | - | - | - | - | - | - | - | 53 | 9 | 100 | 4 | 16 | - | 6 | 2 | 4 | 36 | 12 | 11 | 1 | 3 | 5 | - | - | - | - | | | | | | | | | | |
| 50-99 EMPLOYEES | | | 101 | 94 | 7 | 1 | - | - | - | - | 1 | - | - | 20 | 7 | 42 | 1 | 4 | - | 2 | - | 3 | 14 | 3 | 2 | 1 | - | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | | 39 | 38 | 1 | - | - | 1 | - | - | - | - | - | 6 | 1 | 20 | - | 3 | - | - | - | 1 | 4 | - | 3 | - | - | - | - | - | - | - | | | | | | | | | | |
| 250-499 EMPLOYEES | | | 27 | 27 | - | - | - | - | - | - | - | - | - | 5 | - | 21 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 500-999 EMPLOYEES | | | 5 | 5 | - | 2 | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 1000 EMPLOYEES AND OVER | | | 2 | 2 | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| ADAMS COUNTY, TOTAL. | | | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | 1 | 1 | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | 1 | 1 | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| ALLEGHENY COUNTY, TOTAL. | | | 119 | 115 | 4 | - | - | - | - | - | - | - | - | - | 55 | 2 | 36 | 2 | 9 | 4 | - | 1 | - | 4 | - | - | 4 | 1 | 1 | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 107 | 103 | 3 | - | - | - | - | - | - | - | - | - | 46 | 2 | 33 | 2 | 9 | 4 | - | 1 | - | 4 | - | - | - | 3 | 1 | 1 | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | | 5 | 5 | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 250 EMPLOYEES AND OVER | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| ARMSTRONG COUNTY, TOTAL. | | | 169 | 160 | 9 | - | - | - | - | - | - | - | - | - | 79 | 6 | 47 | - | 19 | - | - | 5 | 1 | 3 | - | 1 | 8 | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 151 | 143 | 8 | - | - | - | - | - | - | - | - | - | 65 | 5 | 47 | - | 19 | - | - | 3 | 1 | 3 | - | 1 | 7 | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 16 | 15 | 1 | - | - | - | - | - | - | - | - | - | 12 | 1 | - | - | - | - | - | 2 | - | - | - | - | 1 | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | | 2 | 2 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| BEAVER COUNTY, TOTAL. | | | 34 | 29 | 5 | - | - | - | - | - | - | - | - | - | 14 | 5 | 4 | - | 1 | - | - | - | - | 4 | 1 | 1 | 4 | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 33 | 28 | 5 | - | - | - | - | - | - | - | - | - | 14 | 5 | 4 | - | 1 | - | - | - | - | 4 | 1 | - | 4 | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | |
| BEDFORD COUNTY, TOTAL. | | | 35 | 34 | 1 | - | - | - | - | - | - | - | - | - | 20 | - | 3 | - | 7 | - | - | 3 | 1 | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 31 | 30 | 1 | - | - | - | - | - | - | - | - | - | 19 | - | 3 | - | 6 | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 4 | 4 | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| BERKS COUNTY, TOTAL. | | | 21 | 19 | 2 | 2 | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | 11 | 1 | 2 | - | - | 1 | - | 1 | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 14 | 13 | 1 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | 7 | 1 | 2 | - | - | - | - | 1 | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 6 | 5 | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 250 EMPLOYEES AND OVER | | | 1 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| BLAIR COUNTY, TOTAL. | | | 20 | 18 | 2 | - | - | - | - | - | - | - | - | - | 7 | - | - | - | - | 1 | - | 7 | - | 2 | 2 | 1 | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 18 | 17 | 1 | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | 1 | - | 7 | - | 2 | 1 | 1 | - | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 2 | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| BRADFORD COUNTY, TOTAL. | | | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | 1 | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | 1 | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | | | | | | | | | | |
| BUCKS COUNTY, TOTAL. | | | 23 | 19 | 4 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | 12 | 1 | 5 | 1 | - | 1 | - | - | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 19 | 15 | 4 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 1 | 9 | 1 | 4 | 1 | - | 1 | - | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 3 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| BUTLER COUNTY, TOTAL. | | | 114 | 111 | 3 | - | - | - | - | - | - | - | - | - | 50 | 4 | 38 | - | 12 | - | - | 3 | 1 | 3 | 1 | - | 1 | - | 1 | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 105 | 103 | 2 | - | - | - | - | - | - | - | - | - | 45 | 4 | 37 | - | 12 | - | - | 2 | 2 | 2 | 1 | - | 1 | - | 1 | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 9 | 8 | 1 | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | |
| CAMBRIA COUNTY, TOTAL. | | | 154 | 152 | 2 | - | - | - | - | - | - | - | - | - | 141 | 1 | 2 | - | 4 | - | - | 1 | - | 1 | 1 | 1 | 1 | 1 | 1 | - | - | - | | | | | | | | | | |
| 0-19 EMPLOYEES | | | 133 | 131 | 2 | - | - | - | - | - | - | - | - | - | 121 | - | 2 | - | 4 | - | - | 1 | - | 1 | 1 | 1 | 1 | 1 | - | - | - | - | | | | | | | | | | |
| 20-99 EMPLOYEES | | | 15 | 15 | - | - | - | - | - | - | - | - | - | - | 14 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | |
| 100-249 EMPLOYEES | | | 2 | 2 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|---|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| CRAWFORD COUNTY: TOTAL | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 25 | 25 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CUMBERLAND COUNTY: TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 2 | 2 | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 2 | 2 | - | - | - | - | 1 | - |
| DAUPHIN COUNTY: TOTAL | 54 | 53 | 1 | - | - | - | - | - | - | - | - | 50 | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 51 | 50 | 1 | - | - | - | - | - | - | - | - | 48 | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| DELAWARE COUNTY: TOTAL | 12 | 9 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | 3 | - | - | 3 | 3 | 2 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 7 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | 3 | - | - | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - |
| ELK COUNTY: TOTAL | 54 | 53 | 1 | - | - | - | - | - | - | - | - | - | - | 25 | - | 20 | 1 | 6 | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 49 | 48 | 1 | - | - | - | - | - | - | - | - | - | - | 22 | - | 18 | 1 | 6 | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ERIE COUNTY: TOTAL | 33 | 22 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 6 | - | 9 | - | - | 5 | 2 | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 25 | 21 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 6 | - | 2 | - | - | 4 | 2 | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 7 | 1 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | 1 | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| FAYETTE COUNTY: TOTAL | 84 | 82 | 2 | - | 1 | - | - | - | - | - | - | - | - | 57 | - | 10 | - | 7 | 1 | - | 4 | - | - | 1 | 2 | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 78 | 77 | 1 | - | 1 | - | - | - | - | - | - | - | - | 53 | - | 10 | - | 7 | 1 | - | 3 | - | - | 1 | 2 | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| FOREST COUNTY: TOTAL | 18 | 17 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 18 | 17 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| FRANKLIN COUNTY: TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 7 | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 6 | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| FULTON COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - |
| GREENE COUNTY: TOTAL | 69 | 69 | - | - | - | - | - | - | - | - | - | - | - | 18 | 1 | 44 | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 61 | 61 | - | - | - | - | - | - | - | - | - | - | - | 10 | 1 | 44 | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HUNTINGDON COUNTY: TOTAL | 13 | 12 | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | 4 | 1 | 1 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 11 | 1 | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | 4 | 1 | 1 | - | 1 | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| INDIANA COUNTY: TOTAL | 154 | 154 | - | - | - | - | - | - | - | - | - | - | - | 99 | 4 | 26 | - | 23 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 132 | 132 | - | - | - | - | - | - | - | - | - | - | - | 79 | 4 | 25 | - | 22 | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JEFFERSON COUNTY: TOTAL | 95 | 95 | - | - | - | - | - | - | - | - | - | - | - | 64 | 2 | 20 | - | 6 | - | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 81 | 81 | - | - | - | - | - | - | - | - | - | - | - | 55 | 2 | 16 | - | 5 | - | - | 1 | - | 1 | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| JUNIATA COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| LACKAWANNA COUNTY: TOTAL | 70 | 70 | - | - | - | - | - | - | - | 1 | - | 58 | 8 | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 59 | 59 | - | - | - | - | - | - | - | 1 | - | 49 | 6 | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 10 | 10 | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued**

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WYOMING COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | 1 | 1 | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | 1 | 1 | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| YORK COUNTY, TOTAL | 16 | 14 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 8 | 2 | 2 | 1 | - | 2 | - | 1 | 1 | - | - |
| 0-19 EMPLOYEES | 15 | 10 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | 2 | 2 | 1 | - | 2 | - | 1 | 1 | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 46 | 46 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 25 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 45 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

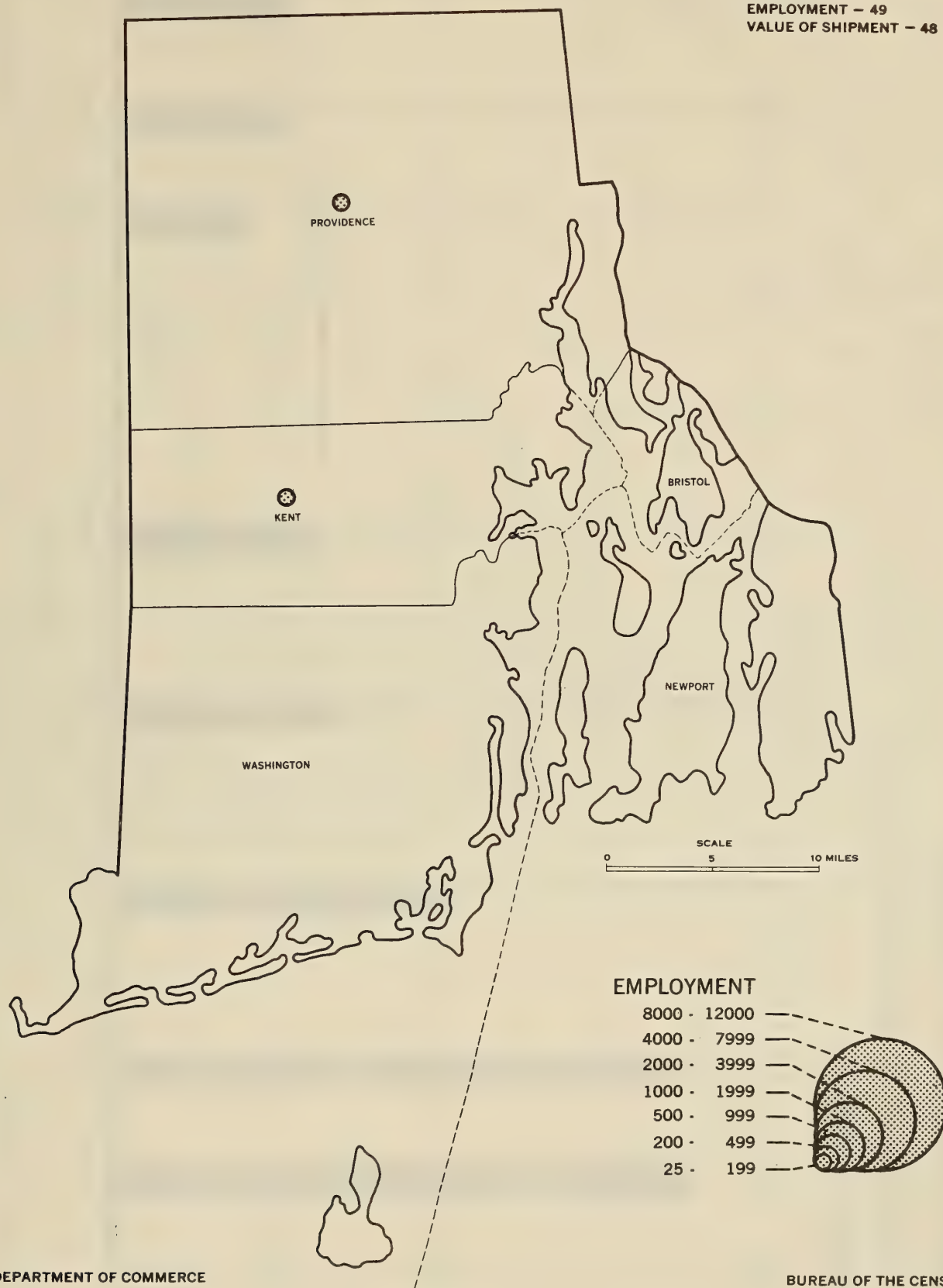
EMPLOYMENT IN MINING BY COUNTY: 1963

RHODE ISLAND

RANK AMONG STATES

EMPLOYMENT - 49

VALUE OF SHIPMENT - 48



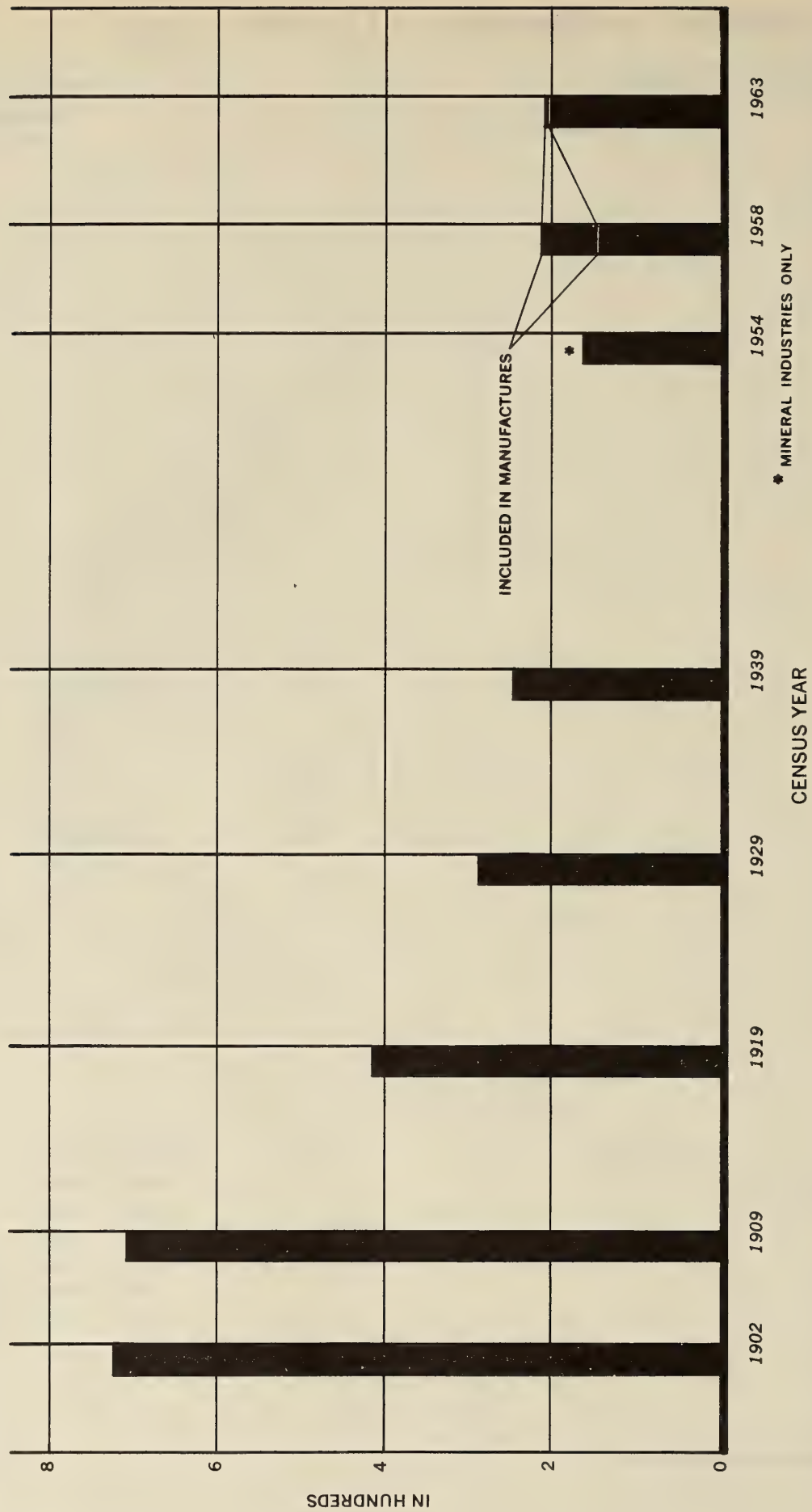
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

RHODE ISLAND



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 21 | 4 | 204 | 1 135 | 176 | 362 | 902 | 2 018 |
| 1958 | 18 | 3 | 147 | 583 | 117 | 218 | 452 | 1 377 |
| 1954 | 20 | 3 | 163 | 565 | 140 | 274 | 461 | 1 109 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | |
| 1963 | 23 | 4 | (D) | (D) | (D) | (D) | (D) | (D) |
| 1958 | 22 | 4 | 212 | 897 | 174 | 322 | 704 | 1 863 |
| 1954 ¹ | 21 | 3 | 163 | 565 | 140 | 274 | 461 | 1 109 |
| 1939 | 221 | (NA) | 248 | 323 | 212 | 435 | 262 | 623 |
| 1929 | 14 | (NA) | 290 | 455 | 256 | (NA) | 385 | 590 |
| 1919 ³ | 14 | (NA) | 415 | 483 | 369 | (NA) | 400 | 758 |
| 1909 ³ | 21 | (NA) | 707 | 468 | 665 | (NA) | 410 | 740 |
| 1902 ⁴ | 222 | (NA) | 723 | 491 | 667 | (NA) | 435 | 690 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁶ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|--|---|--|-------------------------------|--|--|--------------------------------------|-------------------------------|--|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 7502 | (⁷) | 278 | 123 | 2 661 | 260 | 19 | 108 | 26 |
| 1958 | 258 | - | 56 | 161 | 1 630 | 222 | 29 | 243 | (NA) |
| 1954 | 372 | - | 21 | 166 | 1 447 | 221 | 26 | 186 | 19 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963 | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) | (NA) |
| 1958 | 8498 | (⁸) | 856 | 9161 | 2 382 | 9222 | 929 | 167 | (NA) |
| 1954 ⁵ | 372 | - | 21 | 166 | 1 447 | 221 | 26 | 186 | 19 |
| 1939 | 203 | (NA) | 2 | (NA) | 828 | (NA) | 25 | 118 | 7 |
| 1929 | 217 | (NA) | 2 | 17 | 809 | (NA) | 43 | 163 | 4 |
| 1919 ³ | 203 | - | 1 | (NA) | 962 | (NA) | 1050 | 136 | 3 |
| 1909 ³ | 158 | - | - | (NA) | 893 | (NA) | (NA) | (NA) | 2 |
| 1902 ⁴ | 85 | (NA) | - | (NA) | 775 | (NA) | (NA) | (NA) | 1 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Except for number of establishments, excludes data for one dimension granite operation classified in the manufacturing industries. Excludes data for any sand and gravel mining operations in manufacturing establishments.

²Represents number of mines and quarries.

³Excludes data for sand and gravel mining operations and any stone quarries operated as parts of lime plants. There were 2 such sand and gravel establishments in 1929.

⁴Excludes data for sand and gravel mining operations. May include lime plants producing lime valued at not more than \$73 thousand.

⁵Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁶For sand and gravel mining operations in manufacturing establishments includes the estimated value of minerals produced and used in the same establishment. For 1963,

1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁷Cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁸For dimension stone and sand and gravel mining operations in manufacturing establishments, the cost of minerals received for preparation and the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁹Excludes data for dimension stone and sand and gravel mining operations in manufacturing establishments.

¹⁰Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 5 percent of the total kwh. equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|---------------------------------------|--|---|--------------------------------------|--|---------------------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 1441 | MINERAL INDUSTRIES ONLY. | 21 | 4 | 204 | 1 135 | 176 | 362 | 902 |
| | SAND AND GRAVEL: MINERAL INDUSTRY | 17 | 2 | 138 | 842 | 117 | 239 | 705 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) | |
| | | | | | | | | |
| 1441 | MINERAL INDUSTRIES ONLY. | 2 018 | 903 | 2 661 | 260 | 147 | 1 377 | |
| | SAND AND GRAVEL: MINERAL INDUSTRY | 1 321 | 682 | 1 832 | 171 | 105 | 1 116 | |

Note: See appendix A for an explanation of terms used.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|-------------------|---|--|------------------|-------------------------------------|----------------------|---|--|--|--------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and pur- chased fuels and electric energy | Minerals received for prepa- ration | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other con- struction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| 14 | ALL MINERAL INDUSTRIES (NONMETALLIC MINERALS MINING) | 903 | ³ 502 | (³) | 278 | 123 | 260 | 6 | 254 | (x) | (x) | (x) | (x) |
| 1441 | SAND AND GRAVEL. | 682 | ³ 299 | (³) | 262 | 121 | 171 | 5 | 166 | 1 865 | ⁴ 2 085 | ⁵ 70 | (⁴) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Cost of minerals received for preparation is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 5.⁵Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such minerals was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| 14 | ALL MINERAL INDUSTRIES | 20 | 19 | 4 | - | 4 | - | 15 | - | 14 | 1 | - | (D) |
| | NUMBER OF ESTABLISHMENTS..... | (D) | (D) | (D) | - | (D) | - | 151 | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | 1 620 | - | (D) | (D) | - | (D) |
| | NONMETALLIC MINERALS MINING | 20 | 19 | 4 | - | 4 | - | 15 | - | 14 | 1 | - | (D) |
| 144 | NUMBER OF ESTABLISHMENTS..... | (D) | (D) | (D) | - | (D) | - | 151 | - | (D) | (D) | - | (D) |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | - | 151 | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | 1 620 | - | (D) | (D) | - | (D) |
| | SAND AND GRAVEL | 17 | 17 | 4 | - | 4 | - | 13 | - | 12 | 1 | - | - |
| | NUMBER OF ESTABLISHMENTS..... | 136 | 136 | (D) | - | (D) | - | (D) | - | (D) | (D) | - | - |
| | NUMBER OF EMPLOYEES..... | 1 321 | 1 321 | (D) | - | (D) | - | (D) | - | (D) | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 1 321 | 1 321 | (D) | - | (D) | - | (D) | - | (D) | (D) | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|--------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 14 144 | ALL MINERAL OPERATIONS | 23 | 4 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | |
| | MINERAL INDUSTRIES | 21 | 4 | 204 | 1 135 | 176 | 362 | 902 | 2 018 | 903 | 2 661 | 260 | 1 377 | |
| | INCLUDED IN MANUFACTURES | 2 | - | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (NA) | (NA) | |
| | COUNTIES ² | | | | | | | | | | | | | |
| | KENT COUNTY, TOTAL | 5 | 1 | 60 | 549 | 54 | 105 | 452 | 613 | 145 | 727 | 31 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 60 | 549 | 54 | 105 | 452 | 613 | 145 | 727 | 31 | (NA) | (NA) |
| | SAND AND GRAVEL. | 5 | 1 | 60 | 549 | 54 | 105 | 452 | 613 | 145 | 727 | 31 | (NA) | (NA) |
| | PROVIDENCE COUNTY, TOTAL | 13 | 3 | 129 | 524 | 111 | 239 | 398 | 1 281 | 703 | 1 766 | 218 | 94 | 852 |
| | NONMETALLIC MINERALS MINING. | 13 | 3 | 129 | 524 | 111 | 239 | 398 | 1 281 | 703 | 1 766 | 218 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the States and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.
²Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services

109 Miscellaneous metal ores
110 Anthracite
11C Anthracite mining services
120 Bituminous coal and lignite
12C Coal mining services
131 Crude petroleum and natural gas
132 Natural gas liquids

138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures

145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| RHODE ISLAND, TOTAL | 23 | 21 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 3 | – | 17 | 1 | – | – | – | 1 | – | – |
| 1-4 EMPLOYEES | 14 | 12 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 1 | – | 10 | 1 | – | – | – | 1 | – | – |
| 5-9 EMPLOYEES | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – |
| 10-19 EMPLOYEES | 3 | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 3 | – | – | – | – | – | – | – | – |
| 20-49 EMPLOYEES | 4 | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 3 | – | – | – | – | – | – | – |
| KENT COUNTY, TOTAL | 5 | 5 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 5 | – | – | – | – | – | – | – |
| 0-19 EMPLOYEES | 4 | 4 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 | – | – | – | – | – | – | – |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – |
| NEWPORT COUNTY, TOTAL | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – |
| 0-19 EMPLOYEES | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – |
| PROVIDENCE COUNTY, TOTAL | 14 | 13 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 10 | 1 | – | – | – | 1 | – | – |
| 0-19 EMPLOYEES | 11 | 10 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 9 | 1 | – | – | – | – | 1 | – | – |
| 20-99 EMPLOYEES | 3 | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 1 | – | – | – | – | – | – | – |
| WASHINGTON COUNTY, TOTAL | 2 | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – | – |
| 0-19 EMPLOYEES | 2 | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – | – |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

RANK AMONG STATES
EMPLOYMENT — 41
VALUE OF SHIPMENT — 41

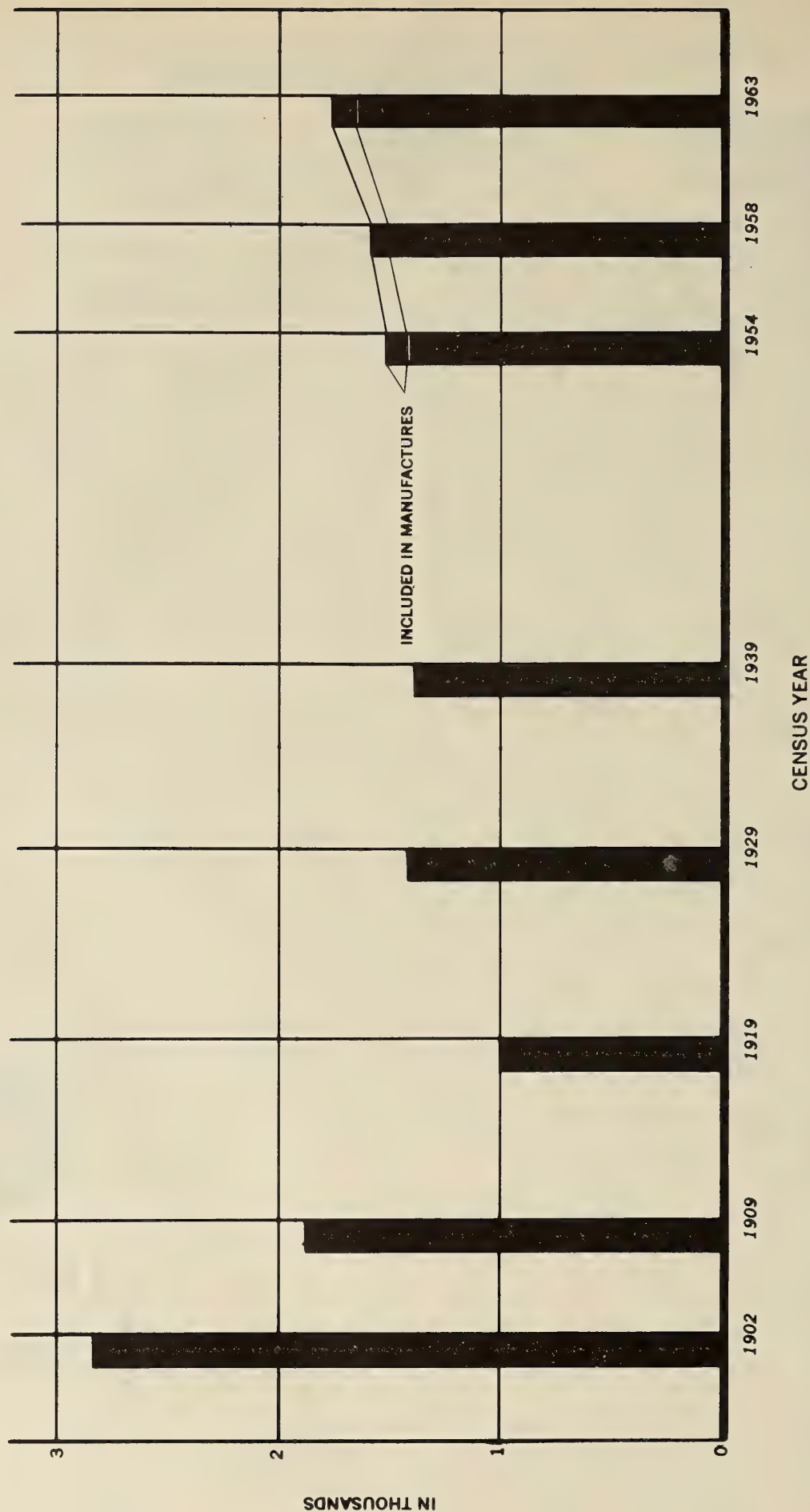


BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

SOUTH CAROLINA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | | |
|---------------------------------------|--|--|--------------------------------|--|--|---|---------------------------------------|--|------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | | |
| 1963. | 68 | 25 | 1 660 | 6 774 | 1 471 | 3 327 | 5 615 | 19 047 | | |
| 1958. | 65 | 21 | 1 513 | 5 263 | 1 272 | 2 613 | 4 020 | 13 090 | | |
| 1954. | 56 | 18 | 1 422 | 4 095 | 1 276 | 3 909 | 3 330 | 10 097 | | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | | |
| 1963. | 94 | 26 | 1 763 | 7 270 | 1 571 | 3 531 | 6 097 | 20 544 | | |
| 1958. | 86 | 22 | 1 591 | 5 546 | 1 350 | 2 768 | 4 303 | 14 499 | | |
| 1954 ¹ | 72 | 19 | 1 518 | 4 356 | 1 372 | 3 102 | 3 591 | 11 229 | | |
| 1939 ² | 346 | (NA) | 1 388 | 1 064 | 1 291 | 2 756 | 782 | 2 389 | | |
| 1929 ⁴ | 33 | (NA) | 1 416 | 1 228 | 1 298 | (NA) | 930 | 2 369 | | |
| 1919 ⁵ | 20 | (NA) | 993 | 820 | 933 | (NA) | 680 | 898 | | |
| 1909 ⁵ | 32 | (NA) | 1 876 | 708 | 1 824 | (NA) | 626 | 1 003 | | |
| 1902 ⁶ | 338 | (NA) | 2 842 | 1 019 | 72 694 | (NA) | 892 | 1 492 | | |
| Kind of operation and year | Selected expenses | | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (million) | | | Per production worker (1,000) | | |
| | | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | | |
| 1963. | 98 254 | (9) | 286 | 1 585 | 26 602 | 2 570 | 486 | 330 | 166 | |
| 1958. | 95 807 | (9) | 160 | 1 480 | 18 687 | 1 850 | 282 | 222 | (NA) | |
| 1954. | 3 231 | 4 | 168 | 1 298 | 12 852 | 1 946 | 288 | 226 | 86 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | | |
| 1963. | 98 632 | (9) | 9286 | 101 585 | 28 477 | 102 570 | 10486 | 330 | 166 | |
| 1958. | 96 052 | (9) | 9160 | 101 480 | 20 341 | 101 850 | 10282 | 209 | (NA) | |
| 1954 ¹ | 93 431 | 4 | 9168 | 101 298 | 14 184 | 101 946 | 10288 | 210 | 86 | |
| 1939 ² | 1 010 | (NA) | 58 | (NA) | 3 457 | (NA) | 133 | 103 | 20 | |
| 1929 ⁴ | 716 | (NA) | 8 | 153 | 3 093 | (NA) | 200 | 154 | 18 | |
| 1919 ⁵ | 453 | - | - | (NA) | 1 351 | (NA) | 11322 | 345 | 5 | |
| 1909 ⁵ | 243 | - | 7 | (NA) | 1 253 | (NA) | (NA) | (NA) | 7 | |
| 1902 ⁶ | 342 | (NA) | - | (NA) | 1 834 | (NA) | (NA) | (NA) | 5 | |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Excludes data for dimension stone dressing, if any, at one dimension granite quarry and, except for number of establishments, excludes data for 2 mining services operations.

³Represents number of mines and quarries and, for mining services industries, number of operating companies.

⁴Excludes data for common clay and shale mining operations. There were 12 such mines in 1939, with products valued at \$75 thousand.

⁵Excludes data for sand and gravel mining operations and for stone quarries operated as parts of cement and lime plants, if any. In 1929, there were 6 such sand and gravel establishments, with products valued at less than \$395 thousand and no such stone quarries. See also footnote 4.

⁶Excludes data for common clay and shale and sand and gravel mining operations

and for one nonproducing operation. May include data for one lime plant.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, the figures represent net production and exclude this duplication.

⁹For crushed and broken stone, sand and gravel, clay, and, for 1963, dimension stone mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. Also, for 1963 and 1958, the cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 5 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 94 | 26 | 1 763 | 7 270 | 1 571 | 3 531 | 6 097 |
| | MINERAL INDUSTRIES. | 68 | 25 | 1 660 | 6 774 | 1 471 | 3 327 | 5 615 |
| | INCLUDED IN MANUFACTURES. | 26 | 1 | 1103 | 1496 | 1100 | 204 | 482 |
| 1421 | CRUSHED AND BROKEN STONE: ¹ | | | | | | | |
| | MINERAL INDUSTRY. | 18 | 13 | 728 | 2 734 | 639 | 1 402 | 2 301 |
| | CRUSHED AND BROKEN LIMESTONE: ¹ | | | | | | | |
| | MINERAL SUBINDUSTRY. | 4 | 3 | 159 | 552 | 136 | 281 | 429 |
| | CRUSHED AND BROKEN GRANITE SUBINDUSTRY. | 14 | 10 | 569 | 2 182 | 503 | 1 121 | 1 872 |
| 144 | SAND AND GRAVEL. | 40 | 4 | 1342 | 11 438 | 1309 | 794 | 1 273 |
| | MINERAL INDUSTRY. | 33 | 4 | 340 | 1 431 | 307 | 790 | 1 266 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 29 | 3 | 289 | 1 236 | 259 | 684 | 1 079 |
| 145 | CLAY AND RELATED MINERALS: ¹ | | | | | | | |
| | MINERAL INDUSTRIES. | 6 | 6 | 452 | 2 099 | 408 | 900 | 1 681 |
| | CLAY AND RELATED MINERALS, N.E.C. | 17 | 1 | 199 | 1438 | 190 | 228 | 364 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. . . . | 5 | 1 | 93 | 323 | 78 | 147 | 224 |
| Code | Industry group and industry | 1963—Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 20 544 | 210 503 | 128 477 | (NA) | 1 591 | 14 499 | |
| | MINERAL INDUSTRIES. | 19 047 | 10 125 | 26 602 | 2 570 | 1 513 | 13 090 | |
| | INCLUDED IN MANUFACTURES. | 1 497 | 2 378 | 1 875 | (NA) | 178 | 1 409 | |
| 1421 | CRUSHED AND BROKEN STONE: ¹ | | | | | | | |
| | MINERAL INDUSTRY. | 9 274 | 3 891 | 12 139 | 1 026 | 510 | 4 176 | |
| | CRUSHED AND BROKEN LIMESTONE: ¹ | | | | | | | |
| | MINERAL SUBINDUSTRY. | 1 572 | 405 | 1 857 | 120 | (NA) | (NA) | |
| | CRUSHED AND BROKEN GRANITE SUBINDUSTRY. | 7 702 | 3 486 | 10 282 | 906 | (NA) | (NA) | |
| 144 | SAND AND GRAVEL. | 3 458 | 21 966 | 14 808 | (NA) | 1307 | 3 343 | |
| | MINERAL INDUSTRY. | 3 407 | 1 961 | 4 752 | 616 | 304 | 3 246 | |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 2 757 | 1 665 | 3 952 | 470 | (NA) | (NA) | |
| 145 | CLAY AND RELATED MINERALS: ¹ | | | | | | | |
| | MINERAL INDUSTRIES. | 4 759 | 3 098 | 7 273 | 584 | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS, N.E.C. | 1 321 | 2 622 | 11 896 | (NA) | 1105 | 1 133 | |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. . . . | 1 244 | 511 | 1 652 | 103 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|-------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 10 125 | 38 254 | (?) | 286 | 1 585 | 2 570 | 6 | 2 564 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. . . | 3 891 | 3 012 | - | 257 | 622 | 1 026 | 5 | 1 021 | 7 744 | 11 677 | 45 | 416 |
| | CRUSHED AND BROKEN GRANITE. | 3 486 | 2 701 | - | 189 | 596 | 906 | 5 | 901 | 7 054 | 10 010 | 4 | 10 |
| 145 | CLAY AND RELATED MINERALS . . | 3 098 | 2 724 | - | - | 374 | 584 | - | 584 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 67 | 67 | 9 | - | 8 | 1 | 57 | 1 | 50 | 6 | 1 | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | (D) | (D) | (D) | 1 456 | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | (D) | (D) | (D) | 17 165 | (D) | (D) | - |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 18 | 18 | 1 | - | 1 | - | 17 | 1 | 16 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 728 | 728 | (D) | - | (D) | - | (D) | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 9 274 | 9 274 | (D) | - | (D) | - | (D) | (D) | (D) | - | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 33 | 33 | 4 | - | 4 | - | 29 | - | 23 | 6 | - | - |
| | NUMBER OF EMPLOYEES..... | 329 | 329 | 4 | - | 4 | - | 325 | - | (D) | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 413 | 3 413 | 48 | - | 48 | - | 3 365 | - | (D) | (D) | - | - |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 6 | 6 | - | - | - | - | 6 | - | 6 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 452 | 452 | - | - | - | - | 452 | - | 452 | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 759 | 4 759 | - | - | - | - | 4 759 | - | 4 759 | - | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| 14 145 | ALL MINERAL OPERATIONS | 94 | 26 | 1 763 | 7 270 | 1 571 | 3 531 | 6 097 | 20 544 | 10 503 | 28 477 | (NA) | 1 591 | 14 499 |
| | MINERAL INDUSTRIES | 68 | 25 | 1 660 | 6 774 | 1 471 | 3 327 | 5 615 | 19 047 | 10 125 | 26 602 | 2 570 | 1 513 | 13 090 |
| | INCLUDED IN MANUFACTURES ² | 26 | 1 | 103 | 496 | 100 | 204 | 482 | 1 497 | 378 | 1 875 | (NA) | 78 | 1 409 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | AIKEN COUNTY, TOTAL. | 9 | 5 | 411 | 1 874 | 372 | 781 | 1 517 | 4 483 | 2 663 | 6 572 | 574 | 443 | 3 608 |
| 14 145 | NONMETALLIC MINERALS MINING. | 9 | 5 | 411 | 1 874 | 372 | 781 | 1 517 | 4 483 | 2 663 | 6 572 | 574 | (NA) | (NA) |
| | CLAY AND RELATED MINERALS. | 5 | 5 | 385 | 1 786 | 350 | 736 | 1 442 | 4 222 | 2 588 | 6 273 | 537 | 389 | 3 152 |
| 14 | LEXINGTON COUNTY, TOTAL. | 5 | 1 | 143 | 579 | 136 | 310 | 524 | 1 713 | 860 | 2 156 | 417 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 143 | 579 | 136 | 310 | 524 | 1 713 | 860 | 2 156 | 417 | 123 | 991 |
| 14 | YORK COUNTY, TOTAL | 5 | 1 | 101 | 432 | 89 | 232 | 345 | 946 | 680 | 1 555 | 71 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 101 | 432 | 89 | 232 | 345 | 946 | 680 | 1 555 | 71 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|---------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufac-tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| RICHLAND COUNTY: TOTAL | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 2 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SPARTANBURG COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | 1 | - | - | - | - | 2 | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 1 | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - |
| SUMTER COUNTY: TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - |
| UNION COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| YORK COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 1 | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

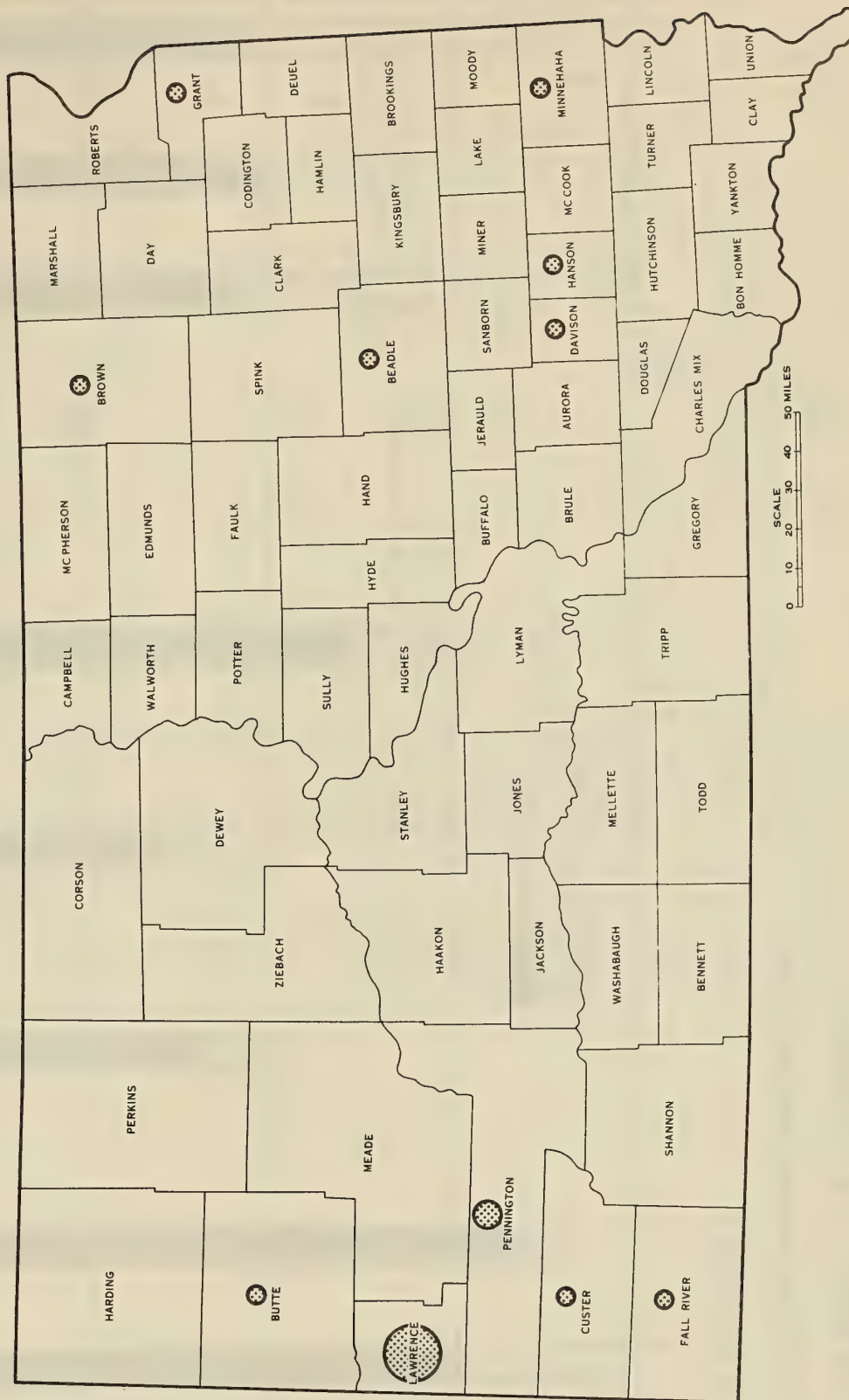
(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

SOUTH DAKOTA

RANK AMONG STATES
EMPLOYMENT - 35
VALUE OF SHIPMENT - 39

EMPLOYMENT
8000 - 12000
4000 - 7999
2000 - 3999
1000 - 1999
500 - 999
200 - 499
25 - 199



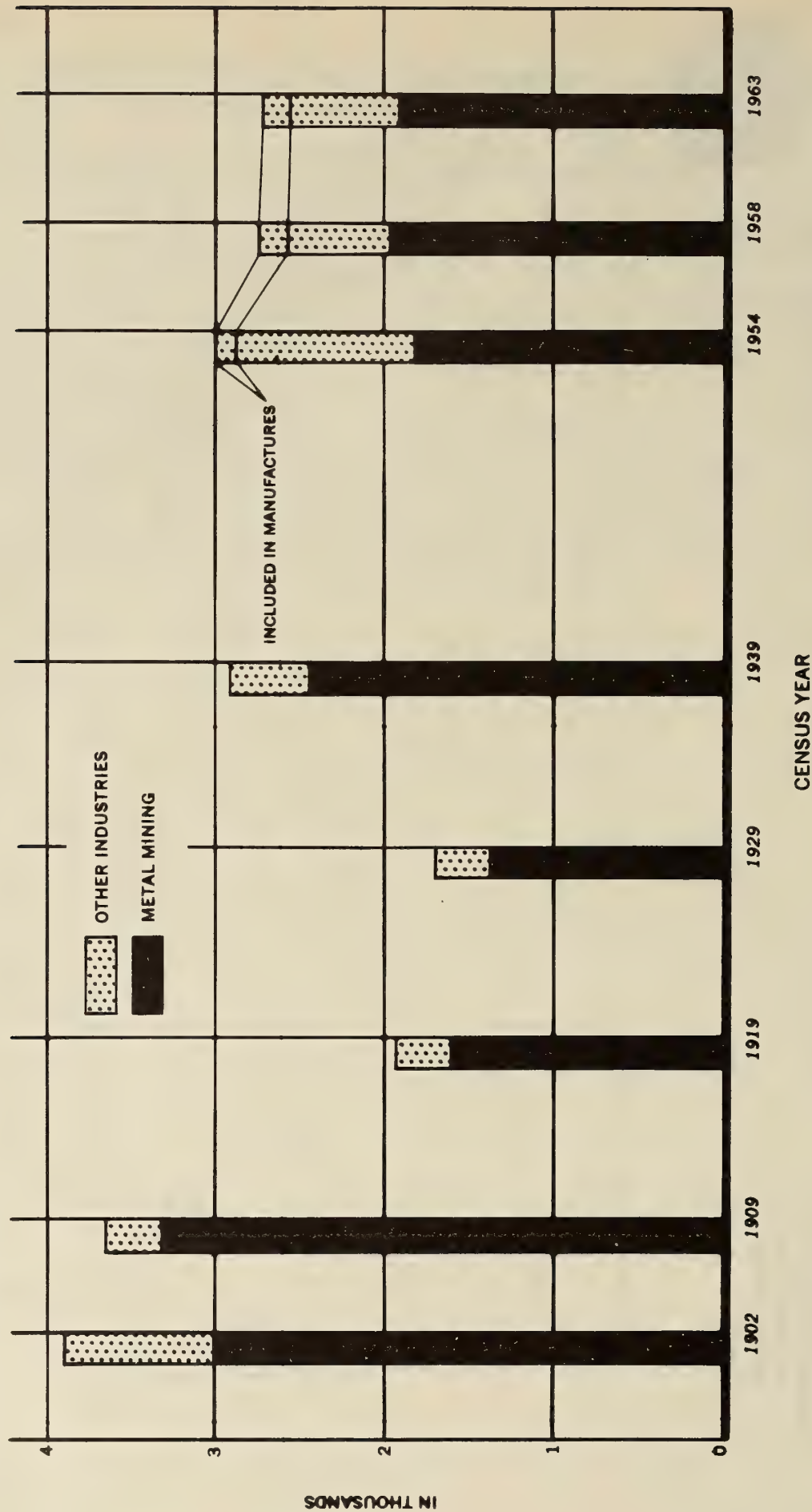
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

SOUTH DAKOTA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---------------------------------------|---|-----------------------------------|---------------|-------------------------------|--|----------------------|-------------------------------|--|--|
| | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | |
| | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 131 | 14 | 2 553 | 13 675 | 2 227 | 4 910 | 11 699 | 25 648 | |
| 1958. | 133 | 13 | 2 569 | 12 630 | 2 215 | 4 615 | 10 667 | 25 145 | |
| 1954. | 187 | 23 | 2 870 | 11 749 | 2 497 | 5 651 | 9 936 | 22 419 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963. | 141 | 17 | 2 725 | 14 532 | 2 372 | 5 219 | 12 359 | 27 340 | |
| 1958. | 142 | 16 | 2 742 | 13 322 | 2 378 | 4 951 | 11 258 | 26 256 | |
| 1954 ² | 191 | 25 | 3 001 | 12 254 | 2 606 | 5 872 | 10 321 | 23 333 | |
| 1939 ³ | 459 | (NA) | 2 922 | 5 542 | 2 647 | 5 988 | 4 690 | 20 689 | |
| 1929 ⁵ | 42 | (NA) | 1 713 | 3 061 | 1 586 | (NA) | 2 647 | 5 955 | |
| 1919 ⁶ | 28 | (NA) | 1 942 | 2 820 | 1 854 | (NA) | 2 597 | 3 932 | |
| 1909 ⁶ | 55 | (NA) | 3 659 | 3 534 | 3 553 | (NA) | 3 309 | 4 866 | |
| 1902 ⁷ | 4185 | (NA) | 3 919 | 4 313 | 8 3 653 | (NA) | 3 956 | 4 602 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | (\$1,000) | (million) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963. | 1012 274 | (10) | 1 987 | 1 002 | 37 949 | 2 962 | 497 | 223 | 145 |
| 1958. | 109 970 | (10) | 782 | 1 529 | 34 898 | 2 528 | 484 | 219 | (NA) |
| 1954. | 7 545 | 592 | 2 269 | 2 101 | 31 314 | 3 536 | 759 | 304 | 130 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963. | 10 1112 811 | (10) | 111 987 | 12 1 002 | 40 178 | 12 2 962 | 12 497 | 223 | 12145 |
| 1958. | 10 1110 505 | (10) | 11782 | 12 1 583 | 36 544 | 12 2 582 | 12 489 | 206 | (NA) |
| 1954 ² | 117 780 | 592 | 112 273 | 12 2 114 | 32 454 | 12 3 562 | 12 766 | 294 | 12133 |
| 1939 ³ | 2 172 | (NA) | 21 | (NA) | 22 882 | (NA) | 557 | 210 | 46 |
| 1929 ⁵ | 1 664 | (NA) | 1 | 37 | 7 620 | (NA) | 353 | 223 | 26 |
| 1919 ⁶ | 1 361 | - | 22 | (NA) | 5 315 | (NA) | 13 362 | 195 | 13 |
| 1909 ⁶ | 1 499 | 55 | 12 | (NA) | 6 432 | (NA) | (NA) | (NA) | 16 |
| 1902 ⁷ | 2 159 | (NA) | 8 | (NA) | 6 769 | (NA) | (NA) | (NA) | 14 |

note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing granite and sandstone at such operations was \$197 thousand; this value has been included in the value of shipments and value added in mining.

⁴Represents number of mines and quarries and, for crude petroleum and natural gas and mining services industries, number of operation companies.

⁵Excludes data for operations in the crude petroleum and natural gas extraction industries and for common clay and shale operations, if any. Includes data for one establishment in North Dakota.

⁶Excludes data for sand, gravel, common clay, and shale mining operations, if any.

⁷Includes data for lime plants producing lime valued at \$21 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years represents net production and excludes this duplication. For 1954, excludes data for the Uranium-Radium-Vanadium Ores Industry.

¹⁰Figures for the cost of minerals received for preparation are included with those for the cost of supplies, purchases for resale, and purchased fuels and electricity.

¹¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, and for dimension stone mining operations in manufactures for 1958, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for crushed and broken stone, sand and gravel, clay, and for 1963 dimension stone mining operations in manufacturing establishments.

¹³Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to less than one percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|---------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 141 | 17 | 2 725 | 14 532 | 2 372 | 5 219 | 12 359 |
| | MINERAL INDUSTRIES. | 131 | 14 | 2 553 | 13 675 | 2 227 | 4 910 | 11 699 |
| | INCLUDED IN MANUFACTURES. | 10 | 3 | ¹ 172 | ¹ 857 | ¹ 145 | 309 | 660 |
| 10 | METAL MINING. | 26 | 3 | 1 914 | (²) | 1 689 | (²) | (²) |
| 1042 | GOLD AND SILVER ORES: LODE GOLD | 3 | 1 | 1 765 | 10 113 | 1 556 | 3 409 | 8 592 |
| 13 | OIL AND GAS EXTRACTION. | 13 | - | 13 | 67 | 11 | 23 | 61 |
| 12 & 14 | LIGNITE MINING AND NONMETALLIC MINERALS MINING: MINERAL INDUSTRIES. | 92 | 11 | 626 | ² 13 608 | 527 | ² 4 887 | ² 11 638 |
| | CRUSHED AND BROKEN STONE: CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 6 | 3 | ¹ 91 | ¹ 420 | ¹ 70 | 156 | 290 |
| 1441 | SAND AND GRAVEL | 72 | 4 | 320 | 1 371 | 286 | 664 | 1 259 |
| | MINERAL INDUSTRY. | 67 | 4 | 309 | 1 327 | 275 | 642 | 1 215 |
| 145 | CLAY AND RELATED MINERALS (MINERAL INDUSTRY). | 11 | 3 | 137 | 700 | 116 | 334 | 630 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 27 340 | ³ 15 854 | ¹ 40 178 | (NA) | 2 742 | 26 256 | |
| | MINERAL INDUSTRIES. | 25 648 | 15 263 | 37 949 | 2 962 | 2 569 | 25 145 | |
| | INCLUDED IN MANUFACTURES. | 1 692 | ³ 591 | ¹ 2 229 | (NA) | ¹ 173 | 1 111 | |
| 10 | METAL MINING. | (²) | (²) | (²) | (²) | 1 973 | 17 940 | |
| 1042 | GOLD AND SILVER ORES: LODE GOLD | 16 402 | 4 485 | 20 351 | 536 | 1 850 | 15 803 | |
| 13 | OIL AND GAS EXTRACTION. | 112 | 1 504 | 705 | 1 011 | (NA) | (NA) | |
| 12 & 14 | LIGNITE MINING AND NONMETALLIC MINERALS MINING: MINERAL INDUSTRIES. | ² 25 536 | ² 13 659 | ² 37 244 | ² 1 951 | (NA) | (NA) | |
| | CRUSHED AND BROKEN STONE: CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 891 | ³ 645 | ¹ 4 439 | (NA) | (NA) | (NA) | |
| 1441 | SAND AND GRAVEL | 2 702 | 1 909 | 4 070 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY. | 2 451 | 1 882 | 3 792 | 541 | (NA) | (NA) | |
| 145 | CLAY AND RELATED MINERALS (MINERAL INDUSTRY). | 3 027 | 1 178 | 4 062 | 143 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Figures for metal mining are included with those for lignite mining and nonmetallic minerals mining.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------------|---|---------------------|--|---|-------------------------------|--|----------------------|--|---|--|--------------------|--|--------------------|
| | | Total (\$1,000) | Supplies, purchases for resale, and pur- chased fuels and electric energy (\$1,000) | Minerals received for prepa- ration (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Total (\$1,000) | Development and exploration of mineral property (\$1,000) | Plant and other con- struction, machinery, and equipment ² (\$1,000) | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. . . | 15 263 | ³ 12 274 | (³) | 1 987 | 1 002 | 2 962 | 1 246 | 1 716 | (X) | (X) | (X) | (X) |
| 10 | METAL MINING. | (⁴) | (⁴) | (⁴) | (⁴) | (⁴) | (⁴) | (⁴) | (⁴) | } ⁵ 1 914 | 20 185 | - | - |
| 1042 | LODE GOLD | 4 485 | 4 485 | - | - | - | 536 | 161 | 375 | | | | |
| 12 & 14 | LIGNITE MINING AND NON- METALLIC MINERALS MINING . . | ⁴ 13 659 | ⁴ 11 654 | (³) | ⁴ 1 089 | ⁴ 916 | ⁴ 1 951 | ⁴ 466 | ⁴ 1 435 | (X) | (X) | (X) | (X) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Figures for Metal mining are included with those for Lignite mining and Nonmetallic Minerals mining.⁵Represents crude ore mined.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of estab- lishments, total | Producing establishments | | | | | | | | | | Nonpro- ducing estab- lish- ments |
|--------------|--|---|--------------------------|------------|---------------------------|-------------------|---|-------------------------------|---------------------------|-------------------|---|--|---|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated prepara- tion plants | |
| | | | | Total | Under- ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under- ground mines | Open-pit mines | Combina- tion methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 128 | 115 | 47 | 5 | 34 | 8 | 64 | 1 | 60 | 3 | 4 | 13 |
| | NUMBER OF EMPLOYEES..... | 2 533 | 2 430 | 83 | 8 | 73 | 2 | 2 287 | (D) | (D) | (D) | 60 | 103 |
| | VALUE ADDED IN MINING.....\$1,000.. | 25 580 | 25 477 | 1 241 | 33 | 923 | 285 | 22 816 | (D) | (D) | (D) | 1 420 | 103 |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 26 | 20 | 17 | 5 | 10 | 2 | 1 | 1 | - | - | 2 | 6 |
| | NUMBER OF EMPLOYEES..... | 1 914 | 1 841 | 21 | 8 | (D) | (D) | (D) | (D) | - | - | (D) | 73 |
| | VALUE ADDED IN MINING.....\$1,000.. | 18 533 | 18 284 | 498 | 33 | (D) | (D) | (D) | (D) | - | - | (D) | 249 |
| 104 | GOLD AND SILVER ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 4 | 2 | 1 | 1 | - | - | 1 | 1 | - | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | 1 768 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 16 403 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | - | (D) |
| 12 | LIGNITE MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 | 1 | 1 | - | 1 | - | - | - | - | - | - | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | - | - | - | - | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | - | - | - | - | - | - |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 90 | 88 | 23 | - | 23 | - | 63 | - | 60 | 3 | 2 | 2 |
| | NUMBER OF EMPLOYEES..... | 611 | (D) | (D) | - | (D) | - | (D) | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 885 | (D) | (D) | - | (D) | - | (D) | - | (D) | (D) | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing data for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | (\$1,000) | (\$1,000) |
| 14 141 | ALL MINERAL OPERATIONS | 141 | 17 | 2 725 | 14 532 | 2 372 | 5 219 | 12 359 | 27 340 | 15 854 | 40 178 | (NA) | 2 742 | 26 256 |
| | MINERAL INDUSTRIES | 131 | 14 | 2 553 | 13 675 | 2 227 | 4 910 | 11 699 | 25 648 | 15 263 | 37 949 | 2 962 | 2 569 | 25 145 |
| | INCLUDED IN MANUFACTURES ² | 10 | 3 | 172 | 857 | 145 | 309 | 660 | 1 692 | 591 | 2 229 | (NA) | 173 | 1 111 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | CUSTER COUNTY, TOTAL | 11 | 1 | 36 | 166 | 31 | 62 | 145 | 627 | 225 | 796 | 56 | 59 | 671 |
| | GRANT COUNTY, TOTAL | 3 | - | 43 | 178 | 42 | 85 | 175 | 456 | 181 | 629 | 8 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 3 | - | 43 | 178 | 42 | 85 | 175 | 456 | 181 | 629 | 8 | (NA) | (NA) |
| | DIMENSION STONE | 3 | - | 43 | 178 | 42 | 85 | 175 | 456 | 181 | 629 | 8 | (NA) | (NA) |
| | HARDING COUNTY, TOTAL | 13 | - | 12 | 66 | 9 | 20 | 56 | 301 | 1 374 | 1 256 | 419 | (NA) | (NA) |
| | LAWRENCE COUNTY, TOTAL | 6 | 1 | 1 775 | 10 144 | 1 563 | 3 419 | 8 620 | 16 486 | 4 660 | 20 479 | 667 | (NA) | (NA) |
| 14 142 | PENNINGTON COUNTY, TOTAL | 13 | 4 | 215 | 995 | 184 | 318 | 824 | 1 177 | 878 | 1 634 | 421 | 172 | 1 737 |
| | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUSHED AND BROKEN STONE | 3 | 2 | 62 | 300 | 41 | 98 | 170 | 567 | 511 | 981 | 97 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 8 | - | 19 | 110 | 16 | 41 | 76 | 95 | 40 | 127 | 8 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represents the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | 101 Iron ores 102 Copper ores 103 Lead and zinc ores 104 Gold and silver ores 105 Bauxite 106 Ferroatloy ores 108 Metal mining services | | | | | | | | | | 109 Miscellaneous metal ores 110 Anthracite 111 Anthracite mining services 120 Bituminous coal and lignite 121 Coal mining services 131 Crude petroleum and natural gas 132 Natural gas liquids | | | | | | | | | | 138 Oil and gas field services 141 Dimension stone 141M Dimension stone in manufactures 142 Crushed and broken stone 142M Crushed and broken stone in manufactures 144 Sand and gravel 144M Sand and gravel in manufactures | | | | | | | | | | 145 Clay and related minerals 145M Clay and related minerals in manufactures 147 Chemical and fertilizer minerals 148 Nonmetallic minerals services 149 Miscellaneous minerals, n.e.c. 149M Miscellaneous minerals, n.e.c., in manufactures | | | | | | | | | |
|-------------------------------------|-------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|-----|-----|----------|-----|----------|---|----------|-----|----------|-----|-----|-----|----------|---|--|--|--|--|--|--|--|--|--|--|--|
| State, county, and size class | All mineral operations. | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | Classi- fied in mineral indus- tries ¹ | In- clud- ed in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | | | | | | | | | | | | |
| SOUTH DAKOTA, TOTAL | 141 | 131 | 10 | 1 | - | - | 4 | - | - | - | 21 | - | - | 1 | - | 11 | - | 2 | 3 | 2 | 6 | 3 | 67 | 5 | 11 | - | 1 | 1 | 2 | - | | | | | | | | | | | | |
| NO EMPLOYEES | 49 | 49 | - | 1 | - | - | - | - | - | - | 10 | - | - | - | - | 10 | - | - | - | - | - | - | 20 | - | 6 | - | - | - | - | - | | | | | | | | | | | | |
| 1-4 EMPLOYEES | 60 | 53 | 7 | - | - | - | 3 | - | - | - | 8 | - | - | - | - | 1 | - | 1 | - | - | 1 | 2 | 36 | 5 | 2 | - | - | - | 1 | - | | | | | | | | | | | | |
| 5-9 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | 1 | - | - | - | - | 6 | 5 | - | - | - | 1 | - | - | | | | | | | | | | | | |
| 10-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20-49 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 2 | - | 2 | - | - | - | - | - | | | | | | | | | | | | |
| 50-99 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | 2 | - | - | 2 | 2 | - | 1 | - | - | - | - | - | | | | | | | | | | | | |
| 1000 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| AURORA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| BEADLE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| BROOKINGS COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| BROWN COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| BUTTE COUNTY, TOTAL | 11 | 10 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 5 | - | - | - | 1 | 3 | - | 2 | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 9 | 8 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | 1 | 3 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | | | | | | | | | | | | |
| CHARLES MIX COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| CLAY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| CODINGTON COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| CUSTER COUNTY, TOTAL | 13 | 11 | 2 | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | 1 | - | - | 1 | 7 | - | - | - | - | 1 | - | | | | | | | | | | | |
| 0-19 EMPLOYEES | 12 | 10 | 2 | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - | - | 1 | - | 1 | 6 | - | - | - | - | 1 | - | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | | | | | | | | | | | | |
| DAVISON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| DEWEY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| DOUGLAS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| EDMUNDS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| FALL RIVER COUNTY, TOTAL | 20 | 20 | - | - | - | - | - | - | - | - | 15 | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | 14 | - | - | - | - | 2 | - | 1 | - | - | - | - | 2 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| FAULK COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | | | | | | | | | | | | |
| GRANT COUNTY, TOTAL | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 20 TO 99 EMPLOYEES | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| GREGORY COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| HAMLIN COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| HAND COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | | | | | | | | | | | | |
| HANSON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---------------------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| LAKE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - |
| LAWRENCE COUNTY, TOTAL | 6 | 6 | - | 1 | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | |
| 0-19 EMPLOYEES | 5 | 5 | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| LINCOLN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| MCCOOK COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| MARSHALL COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| MEADE COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | - | - | - | |
| MINNEHAHA COUNTY, TOTAL | 10 | 7 | 3 | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | 1 | 7 | 2 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 8 | 6 | 2 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | 6 | 2 | - | - | - | - | - | |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| MOODY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| PENNINGTON COUNTY, TOTAL | 13 | 13 | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | 2 | - | 1 | - | 1 | - |
| 0-19 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | 2 | - | 1 | - | 1 | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | |
| PERKINS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| ROBERTS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | |
| SANBORN COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| STANLEY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| SULLY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| TRIPP COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| TURNER COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| WALWORTH COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| YANKTON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| ZIEBACH COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| UNDISTRIBUTED, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

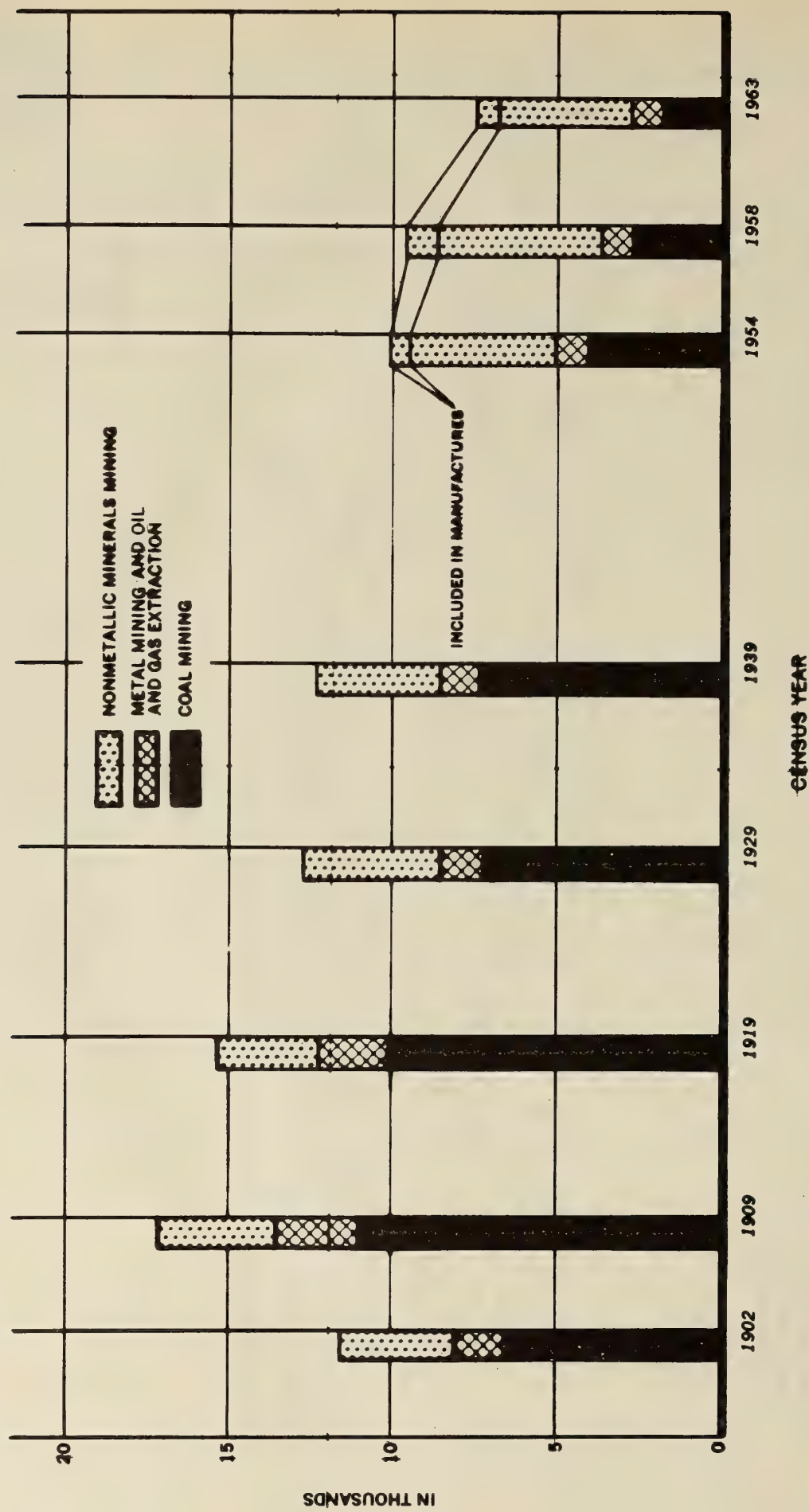
(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

TENNESSEE



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|---------------------------------------|--|--|----------------------------|--|---|-----------------------------------|---------------------|----------------------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 503 | 87 | 6 867 | 32 444 | 6 022 | 12 281 | 27 270 | 90 138 | |
| 1958 | 533 | 94 | 8 744 | 32 646 | 7 514 | 13 845 | 26 774 | 62 012 | |
| 1954 | 665 | 105 | 9 576 | 30 196 | 8 839 | 16 291 | 26 368 | 61 108 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 528 | 94 | 7 542 | 34 708 | 6 626 | 13 433 | 29 312 | 94 701 | |
| 1958 | 562 | 106 | 9 692 | 35 585 | 8 411 | 15 571 | 29 411 | 69 454 | |
| 1954 ¹ | 692 | 112 | 10 181 | 32 037 | 9 416 | 17 412 | 28 044 | 65 241 | |
| 1939 ² | 266 | (NA) | 12 462 | 11 945 | 11 723 | 19 578 | 10 459 | 18 435 | |
| 1929 ⁴ | 163 | (NA) | 12 851 | 12 916 | 11 989 | (NA) | 10 977 | 19 592 | |
| 1919 ⁵ | 203 | (NA) | 15 383 | 14 625 | 14 470 | (NA) | 12 987 | 18 966 | |
| 1909 ⁵ | 246 | (NA) | 17 258 | 8 370 | 16 398 | (NA) | 7 378 | 10 309 | |
| 1902 ⁶ | 256 | (NA) | 11 668 | 5 530 | 710 895 | (NA) | 4 866 | 8 490 | |
| Kind of operation and year | Selected expenses | | | | | Energy used (kwh. equivalent) | | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 29 529 | 4 634 | 7 091 | 8 458 | 126 690 | 13 160 | 2 595 | 431 | 455 |
| 1958 | 37 645 | (⁹) | 3 231 | 5 868 | 100 216 | 8 540 | 1 939 | 258 | (NA) |
| 1954 | 18 475 | 1 045 | 3 736 | 5 511 | 82 815 | 7 060 | 1 116 | 126 | 360 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | ¹⁰ 31 049 | 5 081 | ¹⁰ 7 094 | ¹¹ 8 588 | 133 201 | ¹¹ 13 312 | ¹¹ 2 595 | 431 | ¹¹ 455 |
| 1958 | ⁹ ¹⁰ 39 212 | (⁹) | ¹⁰ 3 234 | ¹¹ 5 985 | 109 207 | ¹¹ 8 678 | ¹¹ 1 935 | 232 | (NA) |
| 1954 ¹ | ¹⁰ 19 594 | 1 236 | ¹⁰ 3 741 | ¹¹ 5 543 | 88 267 | ¹¹ 7 088 | ¹¹ 1 122 | 119 | ¹¹ 363 |
| 1939 ² | 4 160 | (NA) | 89 | (NA) | 22 684 | (NA) | 1 421 | 121 | 137 |
| 1929 ⁴ | 4 451 | (NA) | 143 | 1 119 | 24 186 | (NA) | 1 681 | 140 | 87 |
| 1919 ⁵ | 4 152 | - | 174 | (NA) | 23 292 | (NA) | ¹² 2 330 | 161 | 57 |
| 1909 ⁵ | 2 282 | 42 | 60 | (NA) | 12 693 | (NA) | (NA) | (NA) | 35 |
| 1902 ⁶ | 853 | (NA) | 191 | (NA) | 9 534 | (NA) | (NA) | (NA) | 15 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

²Except, in part, for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing marble and sandstone at such operations was \$551 thousand; this value has been included in the value of shipments and value added in mining. Except in number of establishments, excludes data for one contract service operation and one nonproducing operation.

³Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for common clay and shale operations, and for oil and gas extraction operations, if any. For 1939, there were 16 common clay and shale mines, with products valued at \$137 thousand, and 9 oil and gas extraction operations, with products valued at \$45 thousand.

⁵Excludes data for sand, gravel, common clay, and shale operations, and quarries operated as parts of cement and lime establishments. In 1929, there were 20 sand and gravel establishments, with products valued at \$2,137 thousand; 5 stone quarries oper-

ated as parts of cement plants, with products valued at \$467 thousand; and one stone quarry operated as part of a lime plant. For 1919, excludes data for one nonproducing establishment.

⁶Excludes data for sand, gravel, common clay, and shale operations. Includes data for lime plants producing lime valued at \$236 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹Figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electricity.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electricity.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only 5 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 528 | 94 | 7 542 | 34 708 | 6 626 | 13 431 | 29 312 |
| | MINERAL INDUSTRIES. | 503 | 87 | 6 867 | 32 444 | 6 022 | 12 281 | 27 270 |
| | INCLUDED IN MANUFACTURES. | 25 | 7 | 1 675 | 12 264 | 1 604 | 1 152 | 2 042 |
| 10 | METAL MINING. | 13 | 9 | 942 | 5 280 | 794 | 1 688 | 4 282 |
| 1031 | LEAD AND ZINC ORES (ZINC ORES). | 9 | 8 | 914 | 5 125 | 766 | 1 622 | 4 127 |
| 12 | BITUMINOUS COAL MINING. | 274 | 17 | 1 846 | 8 112 | 1 658 | 2 807 | 7 141 |
| 1211 | BITUMINOUS COAL | 271 | 17 | 1 835 | 8 044 | 1 648 | 2 785 | 7 080 |
| 13 | OIL AND GAS EXTRACTION. | 19 | - | 21 | 61 | 16 | 33 | 45 |
| 14 | NONMETALLIC MINERALS MINING | 222 | 68 | 4 733 | 21 255 | 4 158 | 8 905 | 17 844 |
| | MINERAL INDUSTRIES. | 197 | 61 | 4 058 | 18 991 | 3 554 | 7 753 | 15 802 |
| | INCLUDED IN MANUFACTURES. | 25 | 7 | 1 675 | 12 264 | 1 604 | 1 152 | 2 042 |
| | DIMENSION STONE | 28 | 7 | 757 | 2 030 | 671 | 1 217 | 1 767 |
| 142 | CRUSHED AND BROKEN STONE. | 89 | 31 | 1 578 | 6 637 | 1 385 | 3 182 | 5 458 |
| | MINERAL INDUSTRY. | 83 | 30 | 1 495 | 6 149 | 1 302 | 3 017 | 4 970 |
| | INCLUDED IN MANUFACTURES. | 6 | 1 | 1 83 | 1 488 | 1 83 | 165 | 488 |
| 144 | SAND AND GRAVEL | 57 | 13 | 706 | 3 367 | 632 | 1 379 | 2 807 |
| | MINERAL INDUSTRY. | 52 | 11 | 655 | 3 165 | 581 | 1 278 | 2 605 |
| | INCLUDED IN MANUFACTURES. | 5 | 2 | 1 51 | 1 202 | 1 51 | 101 | 202 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 43 | 9 | 525 | 2 575 | 466 | 1 028 | 2 150 |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | 9 | 2 | 130 | 588 | 115 | 250 | 455 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 11 | 6 | 319 | 1 422 | 264 | 569 | 1 042 |
| 1455 | KAOLIN AND BALL CLAY. | 5 | 4 | 225 | 1 052 | 191 | 405 | 784 |
| | CLAY AND RELATED MINERALS, N.E.C. | 10 | 2 | 174 | 1 346 | 160 | 136 | 259 |
| 1475 | CHEMICAL AND FERTILIZER MINERALS: PHOSPHATE ROCK. | 20 | 8 | 674 | 4 005 | 622 | 1 325 | 3 656 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS. | 94 701 | 3 51 812 | 1 133 201 | 4 13 312 | 9 692 | 69 454 |
| | MINERAL INDUSTRIES. | 90 138 | 49 712 | 126 690 | 13 160 | 8 744 | 62 012 |
| | INCLUDED IN MANUFACTURES. | 4 563 | 3 2 100 | 16 511 | 4 152 | 1 948 | 7 442 |
| 10 | METAL MINING. | 9 952 | 6 740 | 14 375 | 2 317 | 1 053 | 5 394 |
| 1031 | LEAD AND ZINC ORES (ZINC ORES). | 9 564 | 6 606 | 13 855 | 2 315 | 844 | (NA) |
| 12 | BITUMINOUS COAL MINING. | 20 329 | 10 153 | 27 276 | 3 206 | 2 688 | 16 820 |
| 1211 | BITUMINOUS COAL | 20 146 | 10 043 | 27 015 | 3 174 | 2 661 | 16 575 |
| 13 | OIL AND GAS EXTRACTION. | 200 | 222 | 398 | 24 | 19 | 43 |
| 14 | NONMETALLIC MINERALS MINING | 64 220 | 3 34 697 | 1 91 152 | 4 7 765 | 5 932 | 47 197 |
| | MINERAL INDUSTRIES. | 59 657 | 32 597 | 84 641 | 7 613 | 4 984 | 39 755 |
| | INCLUDED IN MANUFACTURES. | 4 563 | 3 2 100 | 16 511 | 4 152 | 1 948 | 7 442 |
| | DIMENSION STONE | 2 455 | 1 887 | 4 140 | 202 | 997 | 4 172 |
| 142 | CRUSHED AND BROKEN STONE. | 23 594 | 9 679 | 30 163 | (NA) | 1 610 | 16 363 |
| | MINERAL INDUSTRY. | 21 636 | 9 372 | 27 898 | 3 110 | 1 436 | 14 246 |
| | INCLUDED IN MANUFACTURES. | 1 958 | 3 307 | 1 2 265 | (NA) | 1 174 | 2 117 |
| 144 | SAND AND GRAVEL | 8 379 | 3 4 045 | 1 11 482 | (NA) | 658 | 6 282 |
| | MINERAL INDUSTRY. | 7 580 | 3 971 | 10 609 | 942 | 611 | 5 204 |
| | INCLUDED IN MANUFACTURES. | 799 | 3 74 | 1 873 | (NA) | 1 47 | 1 078 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 5 870 | 3 259 | 8 399 | 730 | (NA) | (NA) |
| | INDUSTRIAL SAND SUBINDUSTRIES ² | 1 710 | 712 | 2 210 | 212 | (NA) | (NA) |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 4 289 | 2 102 | 6 133 | 258 | 332 | 3 633 |
| 1455 | KAOLIN AND BALL CLAY. | 3 622 | 1 362 | 4 780 | 204 | 222 | 2 916 |
| | CLAY AND RELATED MINERALS, N.E.C. | 766 | 3 677 | 1 404 | (NA) | 1 103 | 1 746 |
| 1475 | CHEMICAL AND FERTILIZER MINERALS: PHOSPHATE ROCK. | 14 533 | 11 301 | 23 440 | 2 394 | 760 | 8 723 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C. Subindustries.³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.⁴Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in-- ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|---|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES | 49 712 | 29 529 | 4 634 | 7 091 | 8 458 | 13 160 | 1 400 | 11 760 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 6 740 | ³ 5 346 | (³) | 522 | 872 | 2 317 | 1 086 | 1 231 | (x) | (x) | (x) | (x) |
| 1031 | LEAD AND ZINC ORES. . . . | 6 606 | ³ 5 278 | (³) | 516 | 872 | 2 315 | 1 086 | 1 229 | ⁴ 2 820 | (D) | (D) | (D) |
| 12 | BITUMINOUS COAL MINING. . . | 10 153 | ⁵ 4 981 | ⁵ 1 917 | 855 | 2 400 | 3 206 | 166 | 3 040 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 10 043 | ⁵ 4 903 | ⁵ 1 917 | 855 | 2 368 | 3 174 | 166 | 3 008 | 6 413 | 25 087 | - | - |
| 14 | NONMETALLIC MINERALS MINING | 32 597 | 21 273 | 563 | 5 576 | 5 185 | 7 613 | 141 | 7 472 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. | 9 372 | 6 816 | 171 | 350 | 2 035 | 3 110 | 39 | 3 071 | 21 115 | ⁶ 27 986 | ⁷ 308 | (⁶) |
| 1441 | SAND AND GRAVEL | 3 971 | 3 049 | - | 514 | 408 | 942 | 24 | 918 | 6 609 | 9 765 | 945 | 873 |
| | CONSTRUCTION SAND AND GRAVEL | 3 259 | 2 593 | - | 298 | 368 | 730 | 24 | 706 | 5 908 | (D) | (D) | (D) |
| 145 | CLAY AND RELATED MINERALS | 2 102 | 1 728 | - | 76 | 298 | 258 | 35 | 223 | (x) | (x) | (x) | (x) |
| 1475 | CHEMICAL AND FERTILIZER MINERALS: PHOSPHATE ROCK. | 11 301 | ³ 4 813 | (³) | 4 357 | 2 131 | 2 394 | 43 | 2 351 | 2 324 | 20 630 | - | - |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Represents crude ore mined.

⁵The cost of purchases for resale is included with the cost of coal received for preparation.

⁶Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 7.

⁷Includes figures for stone produced and used in the same establishment in making lime, but excludes such stone used in making cement. The value of such stone was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Non-producing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|--------|--------------------|----------------|--|------------------------------|---------------------------------------|
| | | | Total | Mines only | | | Mines with preparation plants | | | | Separately operated preparation plants | | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | | | Combination methods and other methods |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 490 | 480 | 289 | 205 | 71 | 13 | 177 | 28 | 135 | 14 | 14 | 10 |
| | NUMBER OF EMPLOYEES..... | 6 729 | 6 699 | 1 474 | 846 | 594 | 34 | 5 090 | 2 010 | 2 742 | 338 | 135 | 30 |
| | VALUE ADDED IN MINING.....\$1,000.. | 88 686 | 88 791 | 11 614 | 5 347 | 5 797 | 470 | 76 257 | 24 212 | 45 889 | 6 156 | 920 | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 11 | 9 | 4 | 3 | 1 | - | 5 | 4 | 1 | - | - | 2 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | (D) | - | (D) | (D) | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | (D) | (D) | - | (D) | (D) | (D) | - | - | (D) |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 271 | 270 | 234 | 202 | 28 | 4 | 30 | 20 | 8 | 2 | 6 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 809 | (D) | 808 | (D) | 135 | (D) | (D) | (D) | (D) | (D) | 37 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 20 431 | (D) | 6 790 | (D) | 2 542 | (D) | (D) | (D) | (D) | (D) | 223 | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 195 | 193 | 43 | - | 42 | 1 | 142 | 4 | 126 | 12 | 8 | 2 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | (D) | 3 456 | (D) | (D) | (D) | 98 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | (D) | 55 326 | (D) | (D) | (D) | 697 | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 83 | 82 | 2 | - | 2 | - | 78 | 3 | 75 | - | 2 | 1 |
| | NUMBER OF EMPLOYEES..... | 1 494 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 21 636 | (D) | (D) | - | (D) | - | (D) | (D) | (D) | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 52 | 52 | 5 | - | 4 | 1 | 43 | - | 31 | 12 | 4 | - |
| | NUMBER OF EMPLOYEES..... | 645 | 645 | 20 | - | (D) | (D) | (D) | - | 352 | (D) | (D) | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 580 | 7 580 | 138 | - | (D) | (D) | (D) | - | 4 602 | (D) | (D) | - |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 11 | 11 | 1 | - | 1 | - | 10 | - | 10 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 319 | 319 | (D) | - | (D) | - | (D) | - | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 289 | 4 289 | (D) | - | (D) | - | (D) | - | (D) | - | - | - |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------------------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages ² | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| | ALL MINERAL OPERATIONS | 528 | 94 | 7 542 | 34 708 | 6 626 | 13 433 | 29 312 | 94 701 | 51 812 | 133 201 | 13 312 | 9 692 | 69 454 |
| | MINERAL INDUSTRIES | 503 | 87 | 6 867 | 32 444 | 6 022 | 12 281 | 27 270 | 90 138 | 49 712 | 126 690 | 13 160 | 8 744 | 62 012 |
| | INCLUDED IN MANUFACTURES ² | 25 | 7 | 675 | 2 264 | 604 | 1 152 | 2 042 | 4 563 | 2 100 | 6 511 | 152 | 948 | 7 442 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ANDERSON COUNTY, TOTAL | 31 | 5 | 450 | 2 340 | 426 | 745 | 2 188 | 5 939 | 2 017 | 7 332 | 624 | (NA) | (NA) |
| | CAMPBELL COUNTY, TOTAL | 59 | 8 | 507 | 2 022 | 476 | 821 | 1 891 | 7 313 | 4 509 | 10 045 | 1 777 | 403 | 1 957 |
| 12 | BITUMINOUS COAL MINING | 56 | 7 | 446 | 1 748 | 419 | 744 | 1 636 | 6 888 | 3 909 | 9 263 | 1 534 | 355 | 1 704 |
| 14 | NONMETALLIC MINERALS MINING | 3 | 1 | 61 | 274 | 57 | 77 | 255 | 425 | 600 | 782 | 243 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 3 | 1 | 61 | 274 | 57 | 77 | 255 | 425 | 600 | 782 | 243 | (NA) | (NA) |
| | CLAIBORNE COUNTY, TOTAL | 25 | 2 | 149 | 524 | 135 | 212 | 494 | 1 291 | 943 | 2 161 | 73 | (NA) | (NA) |
| 12 | BITUMINOUS COAL MINING | 25 | 2 | 149 | 524 | 135 | 212 | 494 | 1 291 | 943 | 2 161 | 73 | 165 | 995 |
| 1211 | BITUMINOUS COAL | 25 | 2 | 149 | 524 | 135 | 212 | 494 | 1 291 | 943 | 2 161 | 73 | (NA) | (NA) |
| | CUMBERLAND COUNTY, TOTAL | 16 | 2 | 142 | 323 | 135 | 219 | 310 | 567 | 242 | 753 | 56 | 263 | 1 550 |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 141 | DIMENSION STONE | 10 | 2 | 125 | 265 | 118 | 190 | 252 | 411 | 193 | 563 | 41 | (NA) | (NA) |
| | DAVIDSON COUNTY, TOTAL | 9 | 5 | 322 | 1 585 | 294 | 659 | 1 407 | 4 209 | 2 073 | 5 494 | 788 | (NA) | (NA) |
| | GILES COUNTY, TOTAL | 3 | - | 40 | 201 | 32 | 75 | 161 | 502 | 493 | 908 | 87 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 3 | - | 40 | 201 | 32 | 75 | 161 | 502 | 493 | 908 | 87 | 44 | 307 |
| | GRUNDY COUNTY, TOTAL | 6 | 1 | 58 | 419 | 36 | 83 | 260 | 1 309 | 938 | 1 736 | 511 | (NA) | (NA) |
| 12 | BITUMINOUS COAL MINING | 6 | 1 | 58 | 419 | 36 | 83 | 260 | 1 309 | 938 | 1 736 | 511 | 316 | 1 708 |
| 1211 | BITUMINOUS COAL | 6 | 1 | 58 | 419 | 36 | 83 | 260 | 1 309 | 938 | 1 736 | 511 | (NA) | (NA) |
| | HAMILTON COUNTY, TOTAL | 14 | 2 | 125 | 625 | 116 | 261 | 569 | 2 184 | 456 | 2 496 | 144 | 123 | 1 885 |
| | HENRY COUNTY, TOTAL | 4 | 2 | 167 | 726 | 134 | 279 | 493 | 2 010 | 795 | 2 703 | 102 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 2 | 167 | 726 | 134 | 279 | 493 | 2 010 | 795 | 2 703 | 102 | 188 | 1 962 |
| 145 | CLAY AND RELATED MINERALS | 4 | 2 | 167 | 726 | 134 | 279 | 493 | 2 010 | 795 | 2 703 | 102 | (NA) | (NA) |
| | HICKMAN COUNTY, TOTAL | 5 | 1 | 53 | 195 | 48 | 105 | 173 | (⁴) | 947 | 732 | 175 | (NA) | (NA) |
| | JEFFERSON COUNTY, TOTAL | 9 | 8 | 620 | 3 479 | 544 | 1 086 | 2 935 | 7 122 | 4 607 | 9 873 | 1 856 | (NA) | (NA) |
| 10 | METAL MINING | 9 | 8 | 620 | 3 479 | 544 | 1 086 | 2 935 | 7 122 | 4 607 | 9 873 | 1 856 | 545 | 3 539 |
| 103 | LEAD AND ZINC ORES | 6 | 6 | 569 | 3 173 | 496 | 972 | 2 664 | 6 480 | 4 422 | 9 061 | 1 841 | (NA) | (NA) |
| 108 | METAL MINING SERVICES | 3 | 2 | 51 | 306 | 48 | 114 | 271 | 642 | 185 | 812 | 15 | (NA) | (NA) |
| | KNOX COUNTY, TOTAL | 20 | 5 | 641 | 3 337 | 483 | 1 081 | 2 382 | 5 912 | 3 972 | 9 222 | 662 | 564 | 2 734 |
| | MCMINN COUNTY, TOTAL | 4 | 1 | 52 | 193 | 37 | 95 | 156 | 633 | 325 | 816 | 142 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 1 | 52 | 193 | 37 | 95 | 156 | 633 | 325 | 816 | 142 | (NA) | (NA) |
| | MARION COUNTY, TOTAL | 31 | 1 | 37 | 101 | 34 | 59 | 84 | 353 | 108 | 431 | 30 | (NA) | (NA) |
| | MAURY COUNTY, TOTAL | 18 | 9 | 682 | 4 137 | 625 | 1 339 | 3 671 | 14 673 | 10 946 | 23 278 | 2 341 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 18 | 9 | 682 | 4 137 | 625 | 1 339 | 3 671 | 14 673 | 10 946 | 23 278 | 2 341 | 710 | 8 366 |
| | MONTGOMERY COUNTY, TOTAL | 4 | 1 | 66 | 262 | 59 | 142 | 230 | 911 | 391 | 1 191 | 111 | 73 | 676 |
| | MORGAN COUNTY, TOTAL | 30 | - | 73 | 269 | 67 | 88 | 240 | 876 | 396 | 1 138 | 134 | 141 | (NA) |
| | PUTNAM COUNTY, TOTAL | 4 | 4 | 230 | 1 131 | 208 | 432 | 989 | 2 984 | 1 024 | 3 745 | 263 | (NA) | (NA) |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 14 142 | ROANE COUNTY, TOTAL | 5 | 1 | 98 | 332 | 84 | 137 | 260 | 645 | 645 | 1 064 | 226 | 65 | 526 |
| | NONMETALLIC MINERALS MINING | 5 | 1 | 58 | 243 | 47 | 88 | 179 | 485 | 589 | 862 | 212 | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE | 5 | 1 | 58 | 243 | 47 | 88 | 179 | 485 | 589 | 862 | 212 | (NA) | (NA) |
| 12 1211 | SCOTT COUNTY, TOTAL | 29 | 1 | 147 | 576 | 140 | 234 | 546 | 1 443 | 580 | 1 865 | 158 | (NA) | (NA) |
| | BITUMINOUS COAL MINING | 29 | 1 | 147 | 576 | 140 | 234 | 546 | 1 443 | 580 | 1 865 | 158 | 302 | 1 858 |
| | BITUMINOUS COAL | 29 | 1 | 147 | 576 | 140 | 234 | 546 | 1 443 | 580 | 1 865 | 158 | (NA) | (NA) |
| | SEQUATCHIE COUNTY, TOTAL | 21 | - | 47 | 184 | 43 | 81 | 173 | 583 | 188 | 713 | 58 | 110 | (NA) |
| 14 | SHELBY COUNTY, TOTAL | 16 | 3 | 190 | 856 | 149 | 280 | 590 | 1 551 | 1 073 | 2 260 | 364 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING | 12 | 3 | 172 | 727 | 144 | 272 | 575 | 1 454 | 1 052 | 2 162 | 344 | 244 | 2 257 |
| | WARREN COUNTY, TOTAL | 3 | - | 31 | 123 | 29 | 67 | 110 | 588 | 172 | 740 | 20 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 3 | - | 31 | 123 | 29 | 67 | 110 | 588 | 172 | 740 | 20 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed value of shipments and capital expenditures.

Industry Groups, for Counties: 1963

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in man- u- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| OBION COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| OVERTON COUNTY, TOTAL | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 17 | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | 15 | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - |
| PERRY COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| PICKETT COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| POLK COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| PUTNAM COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RHEA COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| ROANE COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ROBERTSON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| RUTHERFORD COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| SCOTT COUNTY, TOTAL | 29 | 29 | - | - | - | - | - | - | - | - | - | - | - | 29 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SEQUATCHIE COUNTY, TOTAL | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | 19 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 21 | 21 | - | - | - | - | - | - | - | - | - | - | - | 19 | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| SEVIER COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| SHELBY COUNTY, TOTAL | 18 | 16 | 2 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 1 | - | 1 | - | - | 9 | 2 | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 13 | 2 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | 1 | - | 1 | - | - | 7 | 2 | 1 | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - |
| SULLIVAN COUNTY, TOTAL | 6 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | 2 | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| SUMNER COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| TIPTON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| UNICOI COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| VAN BUREN COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WARREN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| WAYNE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| WEAKLEY COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - |
| WHITE COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WILLIAMSON COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| WILSON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

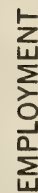
(NA) Not available.

(X) Not applicable.

TEXAS

EMPLOYMENT - 1

VALUE OF SHIPMENT - 1



8000 - 15000

00007 - 00009

4000 - 7999

2000 - 3999

1000 - 1999

500 999

300

200 - 499

25 · 199

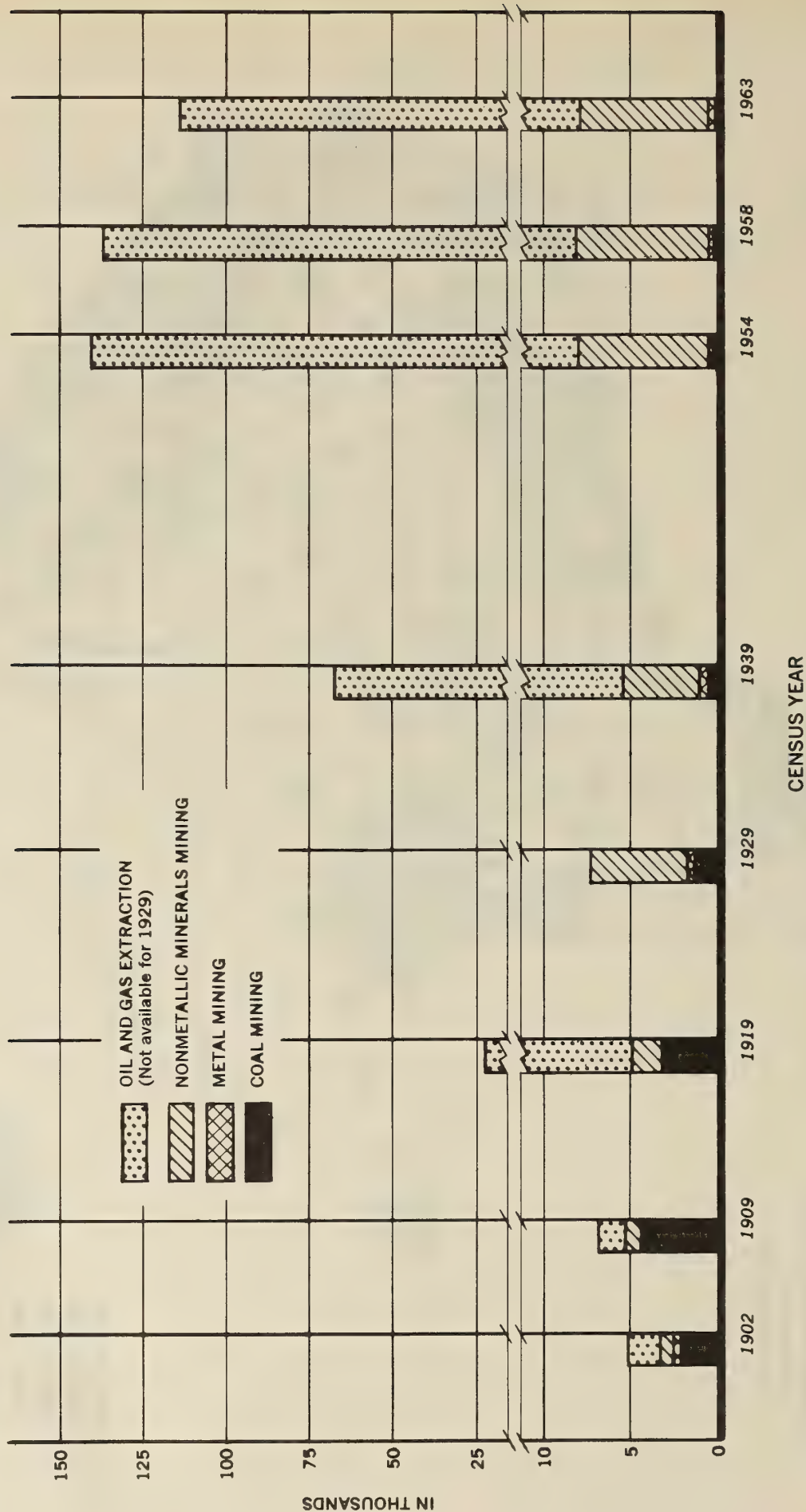
S. DEPARTMENT

U. S. DEPARTMENT OF COMMERCE

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

TEXAS



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|---------------------------------------|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 17 732 | 1 032 | 113 025 | 734 535 | 75 725 | 161 229 | 428 374 | 4 245 720 |
| 1958 | 5 851 | 1 149 | 136 098 | 747 320 | 89 680 | 189 220 | 424 033 | 3 844 527 |
| 1954 | 5 264 | 1 162 | 139 802 | 665 953 | 100 455 | 221 216 | 423 213 | 3 533 064 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | |
| 1963 | 17 847 | 1 048 | 114 036 | 738 816 | 76 659 | 163 202 | 432 450 | 4 264 951 |
| 1958 | 5 949 | 1 161 | 136 976 | 750 643 | 90 534 | 190 902 | 427 203 | 3 865 295 |
| 1954 | 5 345 | 1 181 | 140 993 | 669 133 | 101 642 | 223 497 | 426 368 | 3 544 874 |
| 1939 | 43 685 | (NA) | 67 674 | 117 575 | 53 329 | 96 255 | 78 249 | 521 232 |
| 1919 ⁵ | 688 | (NA) | 22 728 | 36 583 | 18 343 | (NA) | 29 924 | 80 525 |
| 1909 ⁵ | 260 | (NA) | 6 898 | 4 604 | 6 458 | (NA) | 4 054 | 8 422 |
| 1902 | 4385 | (NA) | 5 147 | 3 011 | 73 901 | (NA) | 2 309 | 4 245 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | |
| 1963 | 484 | 102 | 7 941 | 39 715 | 6 359 | 13 797 | 29 348 | 131 475 |
| 1958 | 408 | 109 | 8 135 | 37 533 | 6 886 | 15 413 | 29 017 | 125 786 |
| 1954 | 359 | 96 | 8 038 | 31 008 | 7 157 | 16 001 | 25 988 | 129 790 |
| 1939 ⁸ | 4201 | (NA) | 5 452 | 6 515 | 4 872 | 9 811 | 4 989 | 29 860 |
| 1929 ⁹ | 133 | (NA) | 7 333 | 9 805 | 6 544 | (NA) | 7 609 | 38 884 |
| 1919 ⁵ | 71 | (NA) | 4 955 | 5 964 | 4 565 | (NA) | 4 989 | 13 010 |
| 1909 ¹⁰ | 78 | (NA) | 5 301 | 2 929 | 5 025 | (NA) | 2 630 | 3 669 |
| 1902 ¹¹ | 498 | (NA) | 3 340 | 1 781 | 73 130 | (NA) | 1 562 | 2 411 |

| Kind of operation and year | Selected expenses | | | | | Value of shipments and receipts ¹⁴ | Capital expenditures ¹³ | Energy used (kwh. equivalent) | | Horsepower rating of power equipment ¹³ |
|--|---|-----------------------------------|-----------------------------|---|---------------------|---|------------------------------------|-------------------------------|------------|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy ¹² | Minerals received for preparation | Contract work ¹² | Purchased machinery installed ¹³ | Total ¹³ | | | Per production worker | | |
| | | | | | | | | | | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | | |
| 1963 | 703 282 | 720 614 | 528 461 | 234 944 | 5 585 556 | 847 465 | 158 388 | 2 092 | 12 637 | |
| 1958 | 636 348 | 465 586 | 579 929 | 251 858 | 5 015 368 | 762 880 | 153 539 | 1 712 | (NA) | |
| 1954 | 15674 522 | (15) | 600 092 | 363 822 | 4 311 283 | 860 217 | 138 715 | 1 381 | 9 003 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | | |
| 1963 | 707 923 | 720 669 | 528 487 | 234 985 | 5 609 505 | 847 510 | 158 388 | 2 092 | 12 637 | |
| 1958 | 1539 413 | 1465 586 | 579 955 | 251 870 | 5 039 214 | 762 905 | 153 773 | 1 698 | (NA) | |
| 1954 | 15677 176 | (15) | 600 102 | 363 859 | 4 325 776 | 860 235 | 138 726 | 1 365 | 9 009 | |
| 1939 | 42 808 | (NA) | 77 340 | (NA) | 641 380 | (NA) | 63 451 | 1 190 | 1 722 | |
| 1919 ⁵ | 52 880 | 16361 | 26 612 | (NA) | 160 378 | (NA) | 178 860 | 483 | 131 | |
| 1909 ⁵ | 2 129 | 135 | 156 | (NA) | 10 742 | (NA) | (NA) | (NA) | 33 | |
| 1902 ⁶ | 1 103 | (NA) | 1 634 | (NA) | 6 982 | (NA) | (NA) | (NA) | 13 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | | |
| 1963 | 35 965 | 3 995 | 3 677 | 6 057 | 171 234 | 9 935 | 10 174 | 1 825 | 668 | |
| 1958 | 150 429 | 121 207 | 3 047 | 5 902 | 158 404 | 7 967 | (NA) | (NA) | (NA) | |
| 1954 | 25 966 | 51 | 4 459 | 9 924 | 159 922 | 10 268 | 10 975 | 1 533 | 429 | |
| 1939 ⁸ | 4 833 | (NA) | 180 | (NA) | 34 873 | (NA) | 4 039 | 829 | 115 | |
| 1929 ⁹ | 10 823 | (NA) | 51 | 2 532 | 49 758 | (NA) | 8 128 | 1 242 | 83 | |
| 1919 ⁵ | 4 023 | - | 8 | (NA) | 17 041 | (NA) | 171 236 | 271 | 21 | |
| 1909 ¹⁰ | 651 | - | 31 | (NA) | 4 351 | (NA) | (NA) | (NA) | 9 | |
| 1902 ¹¹ | 375 | (NA) | 6 | (NA) | 2 792 | (NA) | (NA) | (NA) | 4 | |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Figures for number of establishments in 1963 are not entirely comparable with those for earlier years. For 1963, operators of oil and gas field properties were asked to make separate reports by districts for 11 districts in Texas, whereas only one report was required for each State in previous years.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Except for value of shipments and value added in mining, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing limestone and granite at such operations was \$21 thousand; this value has included in the value added in mining.

⁴Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for sand, gravel, common clay, and shale mining operations and limestone quarries operated as part of cement and lime plants. In 1939, there were 102 such mines and quarries with products valued at \$3,963 thousand. For 1919, excludes data for one nonproducing establishment.

⁶Excludes data for sand, gravel, common clay, and shale mining operation. Includes data for 2 cement plants and for lime plants producing lime valued at \$82 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸Except for number of establishments, excludes data for 4 nonproducing mines. See also footnote 7.

⁹Excludes data for common clay and shale mining operations. In 1939, there were 32 such mines with products valued at \$256 thousand.

¹⁰Except for number of establishments, excludes data for 3 nonproducing establishments. See also footnote 9.

¹¹Excludes data for nonproducing operation. See also footnote 12.

¹²For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in 1958 and 1954, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹³For 1963, 1958, and 1954, excludes data for crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments.

¹⁴For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishments. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

¹⁵For 1958, figures for dimension stone operations in manufactures and, for 1954, all figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electric energy. Excludes the cost of natural gas received for processing at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹⁶Represents natural gas purchased as a material or for resale.

¹⁷Excludes purchased electricity. For "all operations" in 1939, the quantity of purchased electricity amounted to less than one percent of the total kwh equivalent of energy used; also, for "excluding oil and gas extraction industries" in 1929, to less than one percent.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|--------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 7 847 | 1 048 | 114 036 | 738 816 | 76 659 | 163 202 | 432 450 |
| | MINERAL INDUSTRIES. | 7 732 | 1 032 | 113 025 | 734 535 | 75 725 | 161 229 | 428 374 |
| | INCLUDED IN MANUFACTURES. | 115 | 16 | ¹ 1 011 | ⁴ 4 281 | ¹ 934 | 1 973 | 4 076 |
| 10 | METAL MINING. | 19 | 4 | 421 | 2 740 | 359 | 795 | 2 173 |
| 12 | LIGNITE MINING. | 3 | 1 | 132 | | 107 | | |
| 13 | OIL AND GAS EXTRACTION. | 7 363 | 946 | 106 095 | 699 101 | 70 300 | 149 405 | 403 102 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 4 941 | 324 | 54 111 | 399 068 | 25 967 | 52 336 | 156 948 |
| | CRUDE PETROLEUM | 4 261 | 266 | 47 425 | 351 158 | 23 082 | 46 458 | 138 912 |
| | NATURAL GAS | 680 | 58 | 6 686 | 47 910 | 2 885 | 5 878 | 18 036 |
| 1321 | NATURAL GAS LIQUIDS | 305 | 132 | 6 870 | 47 513 | 6 117 | 12 530 | 41 148 |
| 138 | OIL AND GAS FIELD SERVICES. | 2 117 | 490 | 45 114 | 252 520 | 38 216 | 84 539 | 205 006 |
| 1381 | DRILLING OIL AND GAS WELLS. | 891 | 278 | 19 004 | 104 228 | 17 100 | 35 303 | 91 351 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. | 144 | 27 | 4 075 | 22 586 | 3 338 | 8 109 | 17 112 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. ¹ | 1 082 | 185 | 22 035 | 125 706 | 17 778 | 41 127 | 96 543 |
| | NONMETALLIC MINERALS MINING | 462 | 97 | 7 388 | 36 975 | 5 893 | 13 002 | 27 175 |
| 14 | MINERAL INDUSTRIES. | 347 | 81 | 6 377 | 32 694 | 4 959 | 11 029 | 23 099 |
| | INCLUDED IN MANUFACTURES. | 115 | 16 | ¹ 1 011 | ⁴ 4 281 | ¹ 934 | 1 973 | 4 076 |
| 141 | DIMENSION STONE | 17 | 5 | 354 | 1 503 | 271 | 640 | 1 272 |
| | MINERAL INDUSTRY. | 11 | 2 | 110 | 477 | 104 | 282 | 451 |
| | INCLUDED IN MANUFACTURES. | 6 | 3 | 244 | 1 026 | 167 | 358 | 821 |
| | DIMENSION LIMESTONE SUBINDUSTRY | 5 | 1 | 125 | 358 | 68 | 131 | 340 |
| | DIMENSION GRANITE SUBINDUSTRY | 5 | 4 | 206 | 1 092 | 182 | 476 | 882 |
| 1421 | CRUSHED AND BROKEN STONE. | 64 | 29 | 1 623 | 7 721 | 1 460 | 3 317 | 6 464 |
| | MINERAL INDUSTRY. | 44 | 23 | 1 335 | 6 445 | 1 172 | 2 742 | 5 188 |
| | INCLUDED IN MANUFACTURES. | 20 | 6 | ² 288 | ¹ 1 276 | ¹ 288 | 575 | 1 276 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 55 | 25 | 1 457 | 7 125 | 1 306 | 2 941 | 5 903 |
| | MINERAL SUBINDUSTRY | 35 | 19 | 1 169 | 5 849 | 1 018 | 2 366 | 4 627 |
| | INCLUDED IN MANUFACTURES. | 20 | 6 | ² 288 | ¹ 1 276 | ¹ 288 | 575 | 1 276 |
| | CRUSHED AND BROKEN STONE, N.E.C. ¹ SUBINDUSTRY. | 9 | 4 | 166 | 596 | 154 | 376 | 561 |
| | SAND AND GRAVEL | 252 | 39 | 2 568 | 11 104 | 2 170 | 4 803 | 9 132 |
| 1441 | MINERAL INDUSTRY. | 223 | 36 | 2 438 | 10 625 | 2 040 | 4 543 | 8 653 |
| | INCLUDED IN MANUFACTURES. | 29 | 3 | ¹ 130 | ¹ 479 | ¹ 130 | 260 | 479 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 213 | 34 | 2 308 | 10 008 | 1 931 | 4 308 | 8 172 |
| | INDUSTRIAL SAND SUBINDUSTRY ⁴ | 10 | 2 | 130 | 617 | 109 | 235 | 481 |
| 145 | CLAY AND RELATED MINERALS ² MINERAL INDUSTRIES. | 29 | 6 | 280 | 1 101 | 222 | 481 | 825 |
| | CLAY AND RELATED MINERALS, N.E.C. ² MINERAL INDUSTRIES. | 59 | 3 | 287 | 1 337 | 267 | 653 | 1 170 |
| | INCLUDED IN MANUFACTURES. | 15 | 3 | ¹ 151 | ⁷ 36 | ¹ 131 | 301 | 569 |
| | | 44 | - | ¹ 136 | ¹ 601 | ¹ 136 | 352 | 601 |
| 149 | MISCELLANEOUS MINERALS, N.E.C. ² MINERAL INDUSTRIES. | 18 | 4 | 351 | 1 579 | 287 | 585 | 1 151 |
| 1499 | GYPSUM. | 7 | 1 | ¹ 86 | ¹ 387 | ¹ 82 | 163 | 373 |
| | MISCELLANEOUS NONMETALLIC MINERALS, N.E.C. ² | 8 | 2 | 115 | 502 | 98 | 192 | 336 |

See footnotes at end of table.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries:
1963 and 1958—Continued

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|--|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 4 264 951 | 2 192 064 | ¹ 5 609 505 | 847 510 | 136 976 | 3 865 295 |
| | MINERAL INDUSTRIES | 4 245 720 | 2 187 301 | 5 585 556 | 847 465 | 136 098 | 3 844 527 |
| | INCLUDED IN MANUFACTURES | 19 231 | ² 4 763 | ¹ 23 949 | ³ 45 | ¹ 878 | 20 768 |
| 10 | METAL MINING | | | | | | |
| 12 | LIGNITE MINING | 12 143 | 5 036 | 16 802 | 377 | 510 | 10 335 |
| 13 | OIL AND GAS EXTRACTION | 4 133 476 | 2 142 370 | 5 438 271 | 837 575 | 128 846 | 3 739 509 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 3 266 993 | 1 015 586 | 3 574 444 | 708 135 | 66 669 | 2 878 841 |
| | CRUDE PETROLEUM | 2 821 202 | 896 856 | 3 099 017 | 619 041 | 63 071 | 2 726 038 |
| | NATURAL GAS | 451 591 | 118 730 | 481 227 | 89 094 | 3 598 | 152 803 |
| 1321 | NATURAL GAS LIQUIDS | 360 761 | 807 561 | 1 113 793 | 54 529 | 8 579 | 329 457 |
| 138 | OIL AND GAS FIELD SERVICES | 505 722 | 319 223 | 750 034 | 74 911 | 53 598 | 531 211 |
| 1381 | DRILLING OIL AND GAS WELLS | 206 829 | 141 528 | 314 887 | 33 470 | 21 418 | 190 427 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES | 36 056 | 18 169 | 48 954 | 5 271 | 3 581 | 26 228 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 262 837 | 159 526 | 386 193 | 36 170 | 28 599 | 314 556 |
| 14 | NONMETALLIC MINERALS MINING | 119 332 | 44 658 | ¹ 154 432 | 9 558 | 7 620 | 115 451 |
| | MINERAL INDUSTRIES | 100 101 | 39 895 | 130 483 | 9 513 | 6 742 | 94 683 |
| | INCLUDED IN MANUFACTURES | 19 231 | ² 4 763 | ¹ 23 949 | ³ 45 | ¹ 878 | 20 768 |
| 141 | DIMENSION STONE | 2 257 | 2 194 | 4 317 | 134 | 279 | 1 785 |
| | MINERAL INDUSTRY | 588 | 682 | 1 181 | 89 | 100 | 556 |
| | INCLUDED IN MANUFACTURES | 1 669 | 1 512 | 3 136 | 45 | 179 | 1 229 |
| | DIMENSION LIMESTONE SUBINDUSTRY | 780 | 375 | 1 105 | 50 | (NA) | (NA) |
| | DIMENSION GRANITE SUBINDUSTRY | 1 348 | 1 781 | 3 054 | 75 | (NA) | (NA) |
| 1421 | CRUSHED AND BROKEN STONE | 22 073 | 10 393 | 28 626 | (NA) | 1 466 | (D) |
| | MINERAL INDUSTRY | 13 833 | 9 346 | 19 339 | 3 840 | 1 191 | 11 122 |
| | INCLUDED IN MANUFACTURES | 8 240 | ² 1 047 | ¹ 9 287 | (NA) | ¹ 275 | (D) |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY | 20 676 | 9 426 | 26 499 | (NA) | (NA) | (NA) |
| | MINERAL SUBINDUSTRY | 12 436 | 8 379 | 17 212 | 3 603 | 985 | 9 491 |
| | INCLUDED IN MANUFACTURES | 8 240 | ² 1 047 | ¹ 9 287 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C., SUBINDUSTRY | 1 397 | 967 | 2 127 | 237 | (NA) | (NA) |
| | SAND AND GRAVEL | 28 850 | 14 637 | 39 740 | (NA) | 2 653 | 28 123 |
| 1441 | MINERAL INDUSTRY | 25 878 | 14 066 | 36 197 | 3 747 | 2 469 | 25 569 |
| | INCLUDED IN MANUFACTURES | 2 972 | ² 571 | ¹ 3 543 | (NA) | ¹ 184 | 2 554 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 24 574 | 12 663 | 33 766 | 3 471 | (NA) | (NA) |
| | INDUSTRIAL SAND SUBINDUSTRY | 1 304 | 1 403 | 2 431 | 276 | (NA) | (NA) |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES | 2 554 | 2 266 | 4 456 | 364 | 309 | 2 530 |
| | CLAY AND RELATED MINERALS, N.E.C., MINERAL INDUSTRIES | 3 446 | 2 063 | ¹ 5 331 | (NA) | 291 | 2 327 |
| | INCLUDED IN MANUFACTURES | 1 871 | 1 360 | 3 053 | 178 | 139 | 1 345 |
| | | 1 575 | ² 703 | ¹ 2 278 | (NA) | ¹ 152 | 982 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.: MINERAL INDUSTRIES | 3 708 | 2 313 | 5 114 | 907 | (NA) | (NA) |
| 1499 | GYPSUM | 3 800 | (D) | 3 995 | (D) | ¹ 86 | 4 324 |
| | MISCELLANEOUS NONMETALLIC MINERALS, N.E.C. | 671 | 1 124 | 1 624 | 171 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.⁴Represents the Glass Sand, Molding Sand, and Industrial Sand, N.E.C. Subindustries.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|----------------------|--|--------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 2 187 301 | 703 282 | 720 614 | 528 461 | 234 944 | 847 465 | 376 703 | 470 762 | (x) | (x) | (x) | (x) |
| 13 | OIL AND GAS EXTRACTION. . . . | 2 142 370 | 671 958 | 716 674 | 524 810 | 228 928 | 837 575 | 376 284 | 461 291 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 1 015 586 | 395 959 | - | 479 798 | 139 829 | 708 135 | 372 895 | 335 240 | (x) | 3 550 716 | (x) | 17 498 |
| | CRUDE PETROLEUM. | 896 856 | 348 322 | - | 422 115 | 126 419 | 619 041 | 317 988 | 301 053 | ³ 909 999 | 2 677 690 | ³ 48 916 | 229 573 |
| | NATURAL GAS. | 118 730 | 47 637 | - | 57 683 | 13 410 | 89 094 | 54 907 | 34 187 | ² 604 369 | 343 544 | ⁴ 3 288 563 | 405 403 |
| 1321 | NATURAL GAS LIQUIDS. | 807 561 | 51 264 | 716 674 | 13 934 | 25 689 | 54 529 | - | 54 529 | ⁵ 207 530 | ⁵ 400 792 | - | - |
| 138 | OIL AND GAS FIELD SERVICES. . . . | 319 223 | 224 735 | - | 31 078 | 63 410 | 74 911 | 3 389 | 71 522 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS. | 141 528 | 92 129 | - | 24 314 | 25 085 | 33 470 | 3 382 | 30 088 | (x) | ⁶ 311 910 | (x) | (⁶) |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES. . . . | 18 169 | 11 732 | - | 1 842 | 4 595 | 5 271 | - | 5 271 | (x) | ⁶ 45 987 | (x) | (⁶) |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 159 526 | 120 874 | - | 4 922 | 33 730 | 36 170 | 7 | 36 163 | (x) | ⁶ 322 526 | (x) | (⁶) |
| 14 | NONMETALLIC MINERALS MINING. . . | 39 895 | ⁷ 31 477 | (⁷) | 2 610 | 5 808 | 9 513 | 281 | 9 232 | (x) | (x) | (x) | (x) |
| 142 | CRUSHED AND BROKEN STONE. . . . | 9 346 | 6 878 | - | 635 | 1 833 | 3 840 | 14 | 3 826 | 15 531 | 17 454 | ⁸ 7 445 | ⁸ 7 922 |
| | CRUSHED AND BROKEN LIMESTONE. | 8 379 | 6 130 | - | 624 | 1 625 | 3 603 | 5 | 3 597 | 14 428 | 15 527 | ⁸ 8 408 | ⁸ 9 395 |
| 144 | SAND AND GRAVEL. | 14 066 | ⁷ 10 035 | (⁷) | 1 109 | 2 922 | 3 747 | 52 | 3 695 | 27 083 | ⁹ 37 526 | 2 547 | (⁹) |
| | CONSTRUCTION SAND AND GRAVEL. | 12 663 | ⁷ 8 953 | (⁷) | 1 054 | 2 656 | 3 471 | 51 | 3 420 | 27 891 | ⁹ 35 662 | 1 689 | (⁹) |
| 149 | MISCELLANEOUS MINERALS, N.E.C. | 2 313 | ⁷ 1 485 | (⁷) | 286 | 542 | 907 | 121 | 786 | (x) | (x) | (x) | (x) |

Note: See Appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁴Represents millions of cubic feet of natural gas shipped.

⁵Represents net shipments of natural gas liquids only. The quantity figure is in thousands of barrels.

⁶Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specific industry.

⁷Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁸Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated. For total crushed and broken stone, however, excludes stone used in making lime.

⁹Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. Represents gross shipments.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 5 605 | 5 295 | 4 732 | - | 84 | 4 648 | 247 | 1 | 235 | 11 | 316 | 310 |
| | NUMBER OF EMPLOYEES..... | 50 828 | 50 294 | 38 180 | - | 368 | 37 812 | 5 097 | (D) | 4 084 | (D) | 7 017 | 534 |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 740 084 | 3 743 751 | 3 294 901 | - | 3 405 | 3 291 496 | 84 875 | (D) | 51 581 | (D) | 420 816 | (²) |
| 13 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 5 246 | 4 947 | 4 643 | - | - | 4 643 | - | - | - | - | 304 | 299 |
| | NUMBER OF EMPLOYEES..... | 44 559 | (D) | 37 292 | - | - | 37 292 | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 627 754 | (D) | 3 270 055 | - | - | 3 270 055 | - | - | - | - | (D) | (D) |
| 131 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 4 941 | 4 643 | 4 643 | - | - | 4 643 | - | - | - | - | - | 298 |
| | NUMBER OF EMPLOYEES..... | 37 739 | 37 292 | 37 292 | - | - | 37 292 | - | - | - | - | - | 447 |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 266 993 | 3 270 055 | 3 270 055 | - | - | 3 270 055 | - | - | - | - | - | (²) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 305 | 304 | - | - | - | - | - | - | - | - | 304 | 1 |
| | NUMBER OF EMPLOYEES..... | 6 820 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 360 761 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 340 | 334 | 83 | - | 78 | 5 | 242 | 1 | 230 | 11 | 9 | 5 |
| | NUMBER OF EMPLOYEES..... | 5 734 | 5 660 | 849 | - | 329 | 520 | 4 678 | (D) | 3 665 | (D) | 133 | 74 |
| | VALUE ADDED IN MINING.....\$1,000.. | 100 289 | 100 252 | 24 033 | - | 2 592 | 21 441 | 74 661 | (D) | 41 367 | (D) | 1 558 | 37 |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 44 | 43 | 2 | - | 2 | - | 41 | - | 41 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 1 325 | (D) | (D) | - | (D) | - | 1 255 | - | 1 255 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 13 833 | (D) | (D) | - | (D) | - | 13 514 | - | 13 514 | - | - | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 223 | 219 | 42 | - | 41 | 1 | 170 | - | 163 | 7 | 7 | 4 |
| | NUMBER OF EMPLOYEES..... | 2 326 | (D) | 135 | - | (D) | (D) | 2 054 | - | 1 845 | 209 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 25 878 | (D) | 1 426 | - | (D) | (D) | 23 362 | - | 21 590 | 1 772 | (D) | (D) |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 18 | 17 | 4 | - | 4 | - | 13 | - | 13 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 324 | (D) | 11 | - | 11 | - | (D) | - | (D) | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 3 782 | (D) | 88 | - | 88 | - | (D) | - | (D) | - | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|---|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 7 847 | 1 048 | 114 036 | 738 816 | 76 659 | 163 202 | 432 450 | 4 264 951 | 2 192 064 | 5 609 505 | 847 510 | 136 976 | 3 865 295 |
| | MINERAL INDUSTRIES | 7 732 | 1 032 | 113 025 | 734 535 | 75 725 | 161 229 | 428 374 | 4 245 720 | 2 187 301 | 5 585 556 | 847 465 | 136 098 | 3 844 527 |
| | INCLUDED IN MANUFACTURES ² | 115 | 16 | 1 011 | 4 281 | 934 | 1 973 | 4 076 | 19 231 | 4 763 | 23 949 | 45 | 878 | 20 768 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ANDERSON COUNTY, TOTAL | 126 | 5 | 417 | 2 394 | 364 | 731 | 2 045 | 22 352 | 7 416 | 24 222 | 5 546 | 420 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 86 | 2 | 175 | 992 | 141 | 281 | 800 | 19 645 | 4 688 | 19 035 | 5 298 | 146 | (NA) |
| | ANDREWS COUNTY, TOTAL | 310 | 28 | 2 038 | 13 134 | 1 686 | 3 372 | 10 092 | 199 501 | 82 232 | 246 368 | 35 365 | 2 596 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 310 | 28 | 2 036 | 13 121 | 1 686 | 3 372 | 10 092 | 199 501 | 82 232 | 246 368 | 35 365 | 2 596 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 170 | 9 | 804 | 6 092 | 582 | 1 173 | 4 142 | 171 972 | 62 035 | 202 788 | 31 219 | 1 074 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 8 | 5 | 189 | 1 283 | 189 | 359 | 1 283 | 14 634 | 11 486 | 23 892 | 2 228 | 274 | 11 698 |
| 138 | OIL AND GAS FIELD SERVICES | 132 | 14 | 1 043 | 5 746 | 915 | 1 840 | 4 667 | 12 895 | 8 711 | 19 688 | 1 918 | 1 248 | (NA) |
| | ANGELINA COUNTY, TOTAL | 6 | - | 20 | 97 | 14 | 36 | 56 | 401 | 742 | 1 115 | 28 | 28 | (NA) |
| | ARANSAS COUNTY, TOTAL | 64 | 1 | 189 | 1 238 | 178 | 389 | 1 130 | 15 185 | 7 790 | 18 857 | 4 118 | 96 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 64 | 1 | 189 | 1 238 | 178 | 389 | 1 130 | 15 185 | 7 790 | 18 857 | 4 118 | 96 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 35 | - | 69 | 493 | 63 | 140 | 427 | 12 258 | 2 888 | 11 531 | 3 615 | 79 | (NA) |
| | ARCHER COUNTY, TOTAL | 286 | 3 | 679 | 3 025 | 588 | 1 190 | 2 443 | 20 543 | 6 419 | 22 601 | 4 361 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 286 | 3 | 679 | 3 025 | 588 | 1 190 | 2 443 | 20 543 | 6 419 | 22 601 | 4 361 | 913 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 210 | 1 | 444 | 2 005 | 368 | 729 | 1 517 | 18 220 | 5 218 | 19 299 | 4 139 | 661 | (NA) |
| | ATASCOSA COUNTY, TOTAL | 89 | 7 | 535 | 3 111 | 450 | 841 | 2 396 | 17 633 | 9 938 | 25 150 | 2 421 | 532 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 89 | 7 | 535 | 3 111 | 450 | 841 | 2 396 | 17 633 | 9 938 | 25 150 | 2 421 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 47 | 2 | 267 | 1 897 | 211 | 426 | 1 355 | 14 081 | 3 705 | 15 617 | 2 169 | 285 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 4 | 2 | 71 | 457 | 64 | 139 | 412 | 2 016 | 5 346 | 7 270 | 92 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 38 | 3 | 197 | 757 | 175 | 276 | 629 | 1 536 | 887 | 2 263 | 160 | (NA) | (NA) |
| | AUSTIN COUNTY, TOTAL | 26 | - | 54 | 304 | 30 | 26 | 147 | 6 463 | 2 205 | 8 373 | 295 | 102 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 26 | - | 54 | 304 | 30 | 26 | 147 | 6 463 | 2 205 | 8 373 | 295 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 14 | - | 25 | 162 | 6 | 10 | 31 | 5 449 | 1 799 | 6 970 | 278 | 65 | (NA) |
| | BAYLOR COUNTY, TOTAL | 84 | - | 150 | 595 | 112 | 221 | 408 | 3 500 | 1 307 | 4 159 | 648 | 203 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 83 | - | 135 | 532 | 108 | 212 | 395 | 3 346 | 1 269 | 3 984 | 631 | 203 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 60 | - | 93 | 365 | 69 | 142 | 243 | 3 131 | 1 122 | 3 651 | 602 | 107 | (NA) |
| | BEE COUNTY, TOTAL | 140 | 4 | 490 | 2 898 | 370 | 756 | 2 160 | 19 585 | 14 695 | 30 174 | 4 106 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 140 | 4 | 414 | 2 414 | 370 | 756 | 2 160 | 19 585 | 14 695 | 30 174 | 4 106 | 744 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 79 | 1 | 135 | 754 | 122 | 237 | 671 | 11 393 | 4 164 | 11 780 | 3 777 | 421 | (NA) |
| | BELL COUNTY, TOTAL | 8 | 2 | 74 | 306 | 72 | 107 | 305 | 829 | 362 | 1 066 | 125 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 2 | 65 | 291 | 64 | 93 | 291 | 649 | 336 | 861 | 124 | (NA) | (NA) |
| | BEXAR COUNTY, TOTAL | 125 | 10 | 916 | 5 096 | 508 | 930 | 1 981 | 17 761 | 5 268 | 21 158 | 1 871 | 865 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 100 | 4 | 344 | 1 833 | 176 | 366 | 715 | 13 888 | 2 934 | 15 749 | 1 073 | 466 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 75 | 2 | 236 | 1 371 | 82 | 161 | 306 | 12 796 | 2 158 | 14 314 | 640 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 25 | 2 | 108 | 462 | 94 | 205 | 409 | 1 092 | 776 | 1 435 | 433 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | 16 | 3 | 207 | 713 | 169 | 352 | 533 | 1 711 | 757 | 2 282 | 186 | 226 | 2 617 |
| | BORDEN COUNTY, TOTAL | 85 | 1 | 130 | 749 | 98 | 226 | 541 | 19 132 | 6 174 | 23 317 | 1 989 | 307 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 54 | - | 78 | 503 | 54 | 113 | 329 | 18 374 | 5 721 | 22 187 | 1 908 | 115 | (NA) |
| | BRAZORIA COUNTY, TOTAL | 142 | 11 | 1 119 | 8 064 | 902 | 1 793 | 6 302 | 144 482 | 143 177 | 275 601 | 12 058 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 69 | 4 | 532 | 4 345 | 377 | 742 | 3 032 | 115 554 | 23 870 | 128 607 | 10 817 | 693 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 5 | 5 | 285 | 2 189 | 258 | 497 | 1 951 | 24 938 | 116 894 | 141 348 | 484 | (NA) | (NA) |
| | BROOKS COUNTY, TOTAL | 61 | 3 | 191 | 1 236 | 158 | 358 | 955 | 26 997 | 12 773 | 34 298 | 5 472 | 251 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 61 | 3 | 191 | 1 236 | 158 | 358 | 955 | 26 997 | 12 773 | 34 298 | 5 472 | 251 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 25 | - | 53 | 368 | 44 | 75 | 275 | 24 276 | 11 336 | 30 399 | 5 213 | 151 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 36 | 3 | 138 | 868 | 114 | 283 | 680 | 2 721 | 1 437 | 3 899 | 259 | 100 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| | BROWN COUNTY, TOTAL | 60 | 1 | 116 | 385 | 102 | 227 | 326 | 1 818 | 608 | 1 915 | 511 | 163 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 46 | - | 36 | 95 | 32 | 60 | 82 | 800 | 382 | 1 071 | 111 | (NA) | (NA) |
| | BURNET COUNTY, TOTAL | 7 | 4 | 197 | 864 | 186 | 452 | 770 | 2 185 | 968 | 2 628 | 525 | 114 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 7 | 4 | 197 | 864 | 186 | 452 | 770 | 2 185 | 968 | 2 628 | 525 | 113 | 925 |
| | CALDWELL COUNTY, TOTAL | 103 | 7 | 509 | 2 286 | 392 | 821 | 1 853 | 11 149 | 4 742 | 13 455 | 2 436 | 394 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 103 | 7 | 509 | 2 286 | 392 | 821 | 1 853 | 11 149 | 4 742 | 13 455 | 2 436 | 394 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 66 | 2 | 176 | 828 | 142 | 278 | 637 | 8 359 | 3 370 | 9 547 | 2 182 | 241 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 37 | 5 | 333 | 1 458 | 250 | 543 | 1 216 | 2 790 | 1 372 | 3 908 | 254 | 153 | (NA) |
| | CALHOUN COUNTY, TOTAL | 93 | - | 182 | 1 205 | 154 | 324 | 973 | 23 273 | 20 874 | 39 897 | 4 250 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 93 | - | 182 | 1 205 | 154 | 324 | 973 | 23 273 | 20 874 | 39 897 | 4 250 | 335 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 49 | - | 87 | 589 | 68 | 145 | 437 | 20 276 | 5 916 | 22 404 | 3 788 | 190 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 5 | - | 33 | 266 | 29 | 61 | 221 | 2 021 | 14 334 | 16 066 | 289 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 39 | - | 62 | 350 | 57 | 118 | 315 | 976 | 624 | 1 427 | 173 | (NA) | (NA) |
| | CALLAHAN COUNTY, TOTAL | 118 | 1 | 209 | 844 | 187 | 344 | 723 | 5 177 | 2 950 | 6 962 | 1 165 | 243 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 118 | 1 | 209 | 844 | 187 | 344 | 723 | 5 177 | 2 950 | 6 962 | 1 165 | 243 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 81 | 1 | 158 | 664 | 140 | 258 | 560 | 4 694 | 2 707 | 6 317 | 1 084 | 127 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 37 | - | 51 | 180 | 47 | 86 | 163 | 483 | 243 | 645 | 81 | 116 | (NA) |
| | CAMERON COUNTY, TOTAL | 21 | 1 | 76 | 472 | 72 | 157 | 436 | 1 181 | 1 162 | 2 228 | 1 107 | 47 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 10 | - | 10 | 68 | 10 | 21 | 66 | 1 553 | 493 | 959 | 1 079 | (NA) | (NA) |
| | CAMP COUNTY, TOTAL | 23 | 1 | 46 | 231 | 42 | 110 | 214 | 1 192 | 524 | 1 142 | 574 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 23 | 1 | 46 | 231 | 42 | 110 | 214 | 1 192 | 524 | 1 142 | 574 | 46 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 11 | - | 6 | 21 | 4 | 8 | 15 | 969 | 398 | 830 | 537 | (NA) | (NA) |
| | CARSON COUNTY, TOTAL | 100 | 4 | 563 | 3 061 | 385 | 875 | 2 274 | 29 353 | 13 139 | 37 608 | 4 884 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 100 | 4 | 563 | 3 061 | 385 | 875 | 2 274 | 29 353 | 13 139 | 37 608 | 4 884 | 678 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 70 | 2 | 228 | 987 | 120 | 236 | 746 | 19 312 | 4 839 | 21 332 | 2 819 | 321 | (NA) |
| | CASS COUNTY, TOTAL | 48 | 2 | 194 | 1 104 | 158 | 340 | 853 | 6 191 | 2 485 | 7 336 | 1 314 | 223 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 48 | 2 | 194 | 1 104 | 158 | 340 | 853 | 6 191 | 2 485 | 7 336 | 1 314 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 27 | - | 63 | 348 | 44 | 91 | 240 | 4 711 | 816 | 4 703 | 798 | 109 | (NA) |
| | CHAMBERS COUNTY, TOTAL | 116 | 7 | 635 | 4 045 | 526 | 1 060 | 3 062 | 63 652 | 39 794 | 90 355 | 13 091 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 116 | 7 | 635 | 4 045 | 526 | 1 060 | 3 062 | 63 652 | 39 794 | 90 355 | 13 091 | 667 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 49 | 3 | 313 | 2 361 | 229 | 498 | 1 591 | 59 156 | 18 909 | 65 383 | 12 682 | 334 | (NA) |
| | CHEROKEE COUNTY, TOTAL | 43 | 2 | 158 | 762 | 142 | 250 | 621 | 3 157 | 1 809 | 4 092 | 365 | 154 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 23 | - | 19 | 105 | 14 | 20 | 73 | 1 857 | 1 154 | 2 206 | 296 | 47 | (NA) |
| | CLAY COUNTY, TOTAL | 121 | - | 253 | 1 313 | 227 | 491 | 1 070 | 11 153 | 2 961 | 11 833 | 2 281 | 455 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 121 | - | 253 | 1 313 | 227 | 491 | 1 070 | 11 153 | 2 961 | 11 833 | 2 281 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 80 | - | 149 | 803 | 132 | 273 | 625 | 10 022 | 2 530 | 10 366 | 2 186 | 279 | (NA) |
| | COCHRAN COUNTY, TOTAL | 79 | 1 | 163 | 939 | 139 | 285 | 776 | 16 875 | 5 316 | 16 880 | 5 311 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 79 | 1 | 163 | 939 | 139 | 285 | 776 | 16 875 | 5 316 | 16 880 | 5 311 | 431 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 60 | - | 91 | 597 | 75 | 164 | 487 | 15 994 | 4 484 | 15 241 | 5 237 | 194 | (NA) |
| | COKE COUNTY, TOTAL | 58 | 4 | 276 | 1 729 | 257 | 546 | 1 606 | 22 090 | 9 337 | 28 724 | 2 703 | 370 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 58 | 4 | 276 | 1 729 | 257 | 546 | 1 606 | 22 090 | 9 337 | 28 724 | 2 703 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 31 | 1 | 83 | 580 | 80 | 156 | 555 | 14 428 | 5 850 | 18 456 | 1 822 | 98 | (NA) |
| | COLEMAN COUNTY, TOTAL | 137 | 1 | 269 | 1 243 | 224 | 469 | 995 | 7 430 | 3 479 | 9 828 | 1 081 | 365 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 102 | - | 127 | 615 | 105 | 203 | 479 | 6 163 | 2 486 | 7 691 | 958 | 191 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 29 | - | 96 | 349 | 81 | 173 | 320 | 714 | 333 | 988 | 59 | 135 | (NA) |
| | COLLINGSWORTH COUNTY, TOTAL | 21 | 1 | 102 | 553 | 71 | 140 | 384 | 1 217 | 937 | 1 922 | 232 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | 1 | 102 | 553 | 71 | 140 | 384 | 1 217 | 937 | 1 922 | 232 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | 15 | 1 | 102 | 553 | 71 | 140 | 384 | 1 116 | 844 | 1 733 | 227 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-------------------------------|--------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| 13 131 132 138 14 | COLORADO COUNTY, TOTAL | 100 | 13 | 681 | 4 162 | 583 | 1 356 | 3 309 | 35 113 | 14 345 | 45 892 | 3 566 | 666 | (NA) |
| | OIL AND GAS EXTRACTION | 88 | 5 | 298 | 2 110 | 206 | 441 | 1 316 | 29 551 | 12 090 | 38 339 | 3 302 | 299 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 47 | 2 | 117 | 945 | 51 | 111 | 363 | 9 713 | 4 045 | 10 695 | 3 063 | 81 | (NA) |
| | NATURAL GAS LIQUIDS. | 3 | 3 | 107 | 747 | 90 | 196 | 595 | 18 364 | 7 450 | 25 784 | 30 | 119 | 4 029 |
| | OIL AND GAS FIELD SERVICES | 38 | - | 74 | 418 | 65 | 134 | 358 | 1 474 | 595 | 1 860 | 209 | 99 | (NA) |
| 14 144 | NONMETALLIC MINERALS MINING. | 12 | 8 | 383 | 2 052 | 377 | 915 | 1 993 | 5 562 | 2 255 | 7 553 | 264 | (NA) | (NA) |
| | SAND AND GRAVEL. | 12 | 8 | 383 | 2 052 | 377 | 915 | 1 993 | 5 562 | 2 255 | 7 553 | 264 | 367 | 3 929 |
| 13 131 | COMANCHE COUNTY, TOTAL | 19 | - | 16 | 46 | 14 | 26 | 39 | 666 | 195 | 780 | 81 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 19 | - | 16 | 46 | 14 | 26 | 39 | 666 | 195 | 780 | 81 | 14 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 14 | - | 11 | 37 | 9 | 19 | 30 | 656 | 185 | 761 | 80 | (NA) | (NA) |
| 13 131 | CONCHO COUNTY, TOTAL | 19 | - | 33 | 211 | 28 | 57 | 183 | 1 532 | 778 | 1 449 | 861 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 19 | - | 33 | 211 | 28 | 57 | 183 | 1 532 | 778 | 1 449 | 861 | 6 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 12 | - | 15 | 92 | 10 | 21 | 64 | 1 250 | 640 | 1 043 | 847 | (NA) | (NA) |
| 13 131 | COOKE COUNTY, TOTAL | 162 | 7 | 672 | 3 483 | 580 | 1 153 | 2 748 | 28 573 | 9 650 | 31 673 | 6 550 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 162 | 7 | 672 | 3 483 | 580 | 1 153 | 2 748 | 28 573 | 9 650 | 31 673 | 6 550 | 857 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 113 | 4 | 376 | 2 082 | 311 | 638 | 1 557 | 24 838 | 7 431 | 26 121 | 6 148 | 425 | (NA) |
| 13 131 132 138 | CRANE COUNTY, TOTAL | 208 | 14 | 1 132 | 7 287 | 884 | 1 884 | 5 293 | 114 547 | 41 070 | 130 305 | 25 312 | 1 821 | (NA) |
| | OIL AND GAS EXTRACTION | 208 | 14 | 1 132 | 7 287 | 884 | 1 884 | 5 293 | 114 547 | 41 070 | 130 305 | 25 312 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 120 | 4 | 440 | 3 160 | 277 | 543 | 1 744 | 91 595 | 24 836 | 98 643 | 17 788 | 973 | (NA) |
| | NATURAL GAS LIQUIDS. | 7 | 4 | 155 | 1 180 | 135 | 280 | 984 | 17 007 | 12 125 | 22 139 | 6 993 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 81 | 6 | 537 | 2 947 | 472 | 1 061 | 2 565 | 5 945 | 4 109 | 9 523 | 531 | 691 | (NA) |
| 13 131 | CROCKETT COUNTY, TOTAL | 145 | 2 | 344 | 1 951 | 312 | 621 | 1 681 | 22 745 | 11 816 | 26 648 | 7 913 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 145 | 2 | 344 | 1 951 | 312 | 621 | 1 681 | 22 745 | 11 816 | 26 648 | 7 913 | 438 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 89 | 1 | 159 | 1 002 | 138 | 282 | 809 | 18 888 | 8 833 | 21 276 | 6 445 | 273 | (NA) |
| 13 131 | CROSBY COUNTY, TOTAL | 15 | 1 | 37 | 267 | 30 | 93 | 150 | 870 | 259 | 1 097 | 32 | 56 | (NA) |
| | CULBERSON COUNTY, TOTAL. | 30 | 2 | 121 | 812 | 115 | 277 | 730 | 3 564 | 1 541 | 3 032 | 2 073 | 47 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS. . . | 15 | - | 10 | 81 | 8 | 15 | 57 | 2 872 | 1 109 | 2 031 | 1 950 | (NA) | (NA) |
| | DALLAS COUNTY, TOTAL | 149 | 17 | 1 391 | 7 351 | 968 | 2 124 | 4 538 | 32 338 | 7 894 | 37 376 | 2 856 | 4 804 | (NA) |
| | OIL AND GAS EXTRACTION | 103 | 12 | 1 024 | 5 803 | 635 | 1 322 | 3 136 | 26 485 | 5 470 | 30 107 | 1 848 | 4 286 | (NA) |
| 13 131 14 144 | CRUDE PETROLEUM AND NATURAL GAS. . . | 73 | 5 | 383 | 2 227 | 137 | 268 | 515 | 20 111 | 2 270 | 21 250 | 1 131 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | SAND AND GRAVEL. | 36 | 3 | 279 | 1 126 | 255 | 614 | 1 032 | 4 423 | 1 829 | 5 391 | 861 | 414 | 1 172 |
| 13 131 | DAWSON COUNTY, TOTAL | 112 | 5 | 366 | 2 144 | 321 | 621 | 1 795 | 22 682 | 10 825 | 25 074 | 8 433 | 245 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 56 | 1 | 83 | 564 | 56 | 118 | 369 | 19 078 | 8 584 | 19 601 | 8 061 | (NA) | (NA) |
| 13 131 | DENTON COUNTY, TOTAL | 21 | - | 26 | 83 | 23 | 41 | 75 | 1 039 | 283 | 1 042 | 280 | 94 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 10 | - | 6 | 21 | 5 | 11 | 20 | 581 | 134 | 677 | 38 | (NA) | (NA) |
| 13 131 138 | DEWITT COUNTY, TOTAL | 103 | 2 | 243 | 1 277 | 179 | 388 | 1 007 | (4) | 19 395 | 13 309 | 4 282 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 103 | 2 | 243 | 1 277 | 179 | 388 | 1 007 | (4) | 19 395 | 13 309 | 4 282 | 210 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 58 | - | 54 | 290 | 42 | 75 | 232 | (4) | 18 182 | 10 804 | 4 144 | 74 | (NA) |
| 13 131 138 | OIL AND GAS FIELD SERVICES | 45 | 2 | 189 | 987 | 137 | 313 | 775 | 1 430 | 1 213 | 2 505 | 138 | 136 | (NA) |
| | DIMMIT COUNTY, TOTAL | 27 | - | 56 | 266 | 50 | 107 | 245 | 1 641 | 478 | 1 342 | 777 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 27 | - | 56 | 266 | 50 | 107 | 245 | 1 641 | 478 | 1 342 | 777 | 93 | (NA) |
| 13 131 138 | CRUDE PETROLEUM AND NATURAL GAS. . . | 12 | - | 13 | 86 | 11 | 23 | 77 | 1 195 | 253 | 704 | 744 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 15 | - | 43 | 180 | 39 | 84 | 168 | 446 | 225 | 638 | 33 | (NA) | (NA) |
| | DUVAL COUNTY, TOTAL. | 199 | 7 | 728 | 3 326 | 568 | 1 129 | 2 778 | 34 697 | 13 061 | 33 767 | 12 548 | 903 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 127 | 4 | 376 | 2 027 | 319 | 620 | 1 739 | 28 967 | 7 843 | 23 179 | 12 188 | (NA) | (NA) |
| 13 131 | EASTLAND COUNTY, TOTAL | 88 | 8 | 345 | 1 579 | 313 | 672 | 1 407 | 6 550 | 3 498 | 8 198 | 1 850 | 421 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 344 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . . | 56 | 3 | 147 | 645 | 132 | 279 | 566 | 4 009 | 1 287 | 3 486 | 1 810 | 164 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | ECTOR COUNTY, TOTAL | 376 | 57 | 4 889 | 29 956 | 3 617 | 7 699 | 20 244 | 240 584 | 103 102 | 290 806 | 52 880 | 5 996 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS. . | 167 | 8 | 873 | 6 402 | 573 | 1 223 | 3 958 | 180 501 | 58 501 | 193 305 | 45 697 | 2 020 | (NA) |
| | OIL AND GAS FIELD SERVICES | 199 | 43 | 3 676 | 21 178 | 2 742 | 5 850 | 14 296 | 39 239 | 17 581 | 50 851 | 5 969 | 3 497 | (NA) |
| | ELLIS COUNTY, TOTAL | 18 | - | 46 | 183 | 32 | 64 | 147 | 588 | 212 | 656 | 144 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 12 | - | 42 | 164 | 28 | 56 | 128 | 534 | 159 | 550 | 143 | (NA) | (NA) |
| | EL PASO COUNTY, TOTAL | 11 | 2 | 100 | 385 | 85 | 165 | 325 | 1 853 | 717 | 2 311 | 259 | 1 673 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 2 | 81 | 323 | 73 | 148 | 299 | 856 | 282 | 1 014 | 124 | (NA) | (NA) |
| | ERATH COUNTY, TOTAL | 14 | - | 14 | 100 | 11 | 22 | 85 | 1 994 | 1 424 | 3 180 | 238 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 14 | - | 14 | 100 | 11 | 22 | 85 | 1 994 | 1 424 | 3 180 | 238 | 39 | (NA) |
| | FAYETTE COUNTY, TOTAL | 21 | 1 | 109 | 543 | 93 | 200 | 477 | 1 878 | 586 | 2 190 | 274 | 96 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 16 | - | 50 | 267 | 38 | 79 | 220 | 1 097 | 229 | 1 145 | 181 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 7 | - | 16 | 106 | 16 | 32 | 106 | 903 | 113 | 869 | 147 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 59 | 276 | 55 | 121 | 257 | 781 | 357 | 1 045 | 93 | 61 | 823 |
| | FISHER COUNTY, TOTAL | 95 | 1 | 165 | 971 | 133 | 256 | 771 | 16 180 | 6 075 | 17 524 | 4 731 | 256 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 95 | 1 | 165 | 971 | 133 | 256 | 771 | 16 180 | 6 075 | 17 524 | 4 731 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 62 | 1 | 111 | 686 | 88 | 162 | 524 | 13 883 | 2 570 | 13 035 | 3 418 | 185 | (NA) |
| | FOARD COUNTY, TOTAL | 23 | - | 45 | 232 | 34 | 71 | 213 | 2 019 | 1 187 | 2 651 | 555 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 23 | - | 45 | 232 | 34 | 71 | 213 | 2 019 | 1 187 | 2 651 | 555 | 35 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | - | 15 | 84 | 10 | 24 | 65 | 1 640 | 966 | 2 096 | 510 | 19 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | - | 30 | 148 | 24 | 47 | 148 | 379 | 221 | 555 | 45 | (NA) | (NA) |
| | FORT BEND COUNTY, TOTAL | 91 | 4 | 667 | 4 330 | 501 | 1 031 | 2 989 | 28 934 | 12 272 | 39 328 | 1 878 | 812 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 50 | 2 | 262 | 1 914 | 143 | 288 | 922 | 20 382 | 6 246 | 24 983 | 1 645 | 281 | (NA) |
| | FRANKLIN COUNTY, TOTAL | 28 | 2 | 161 | 877 | 157 | 298 | 858 | 6 470 | 8 906 | 14 132 | 699 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 28 | 2 | 161 | 877 | 157 | 298 | 858 | 6 470 | 8 906 | 14 132 | 699 | 131 | (NA) |
| | FREESTONE COUNTY, TOTAL | 48 | 3 | 153 | 741 | 141 | 367 | 670 | 5 077 | 2 880 | 6 359 | 1 598 | 51 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 31 | - | 31 | 129 | 24 | 39 | 89 | 3 425 | 1 601 | 3 578 | 1 448 | 15 | (NA) |
| | FRIO COUNTY, TOTAL | 44 | 1 | 95 | 518 | 81 | 173 | 407 | 5 008 | 1 900 | 5 630 | 1 278 | 126 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 44 | 1 | 95 | 518 | 81 | 173 | 407 | 5 008 | 1 900 | 5 630 | 1 278 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | 1 | 68 | 371 | 59 | 120 | 306 | 4 459 | 871 | 4 066 | 1 264 | 78 | (NA) |
| | GAINES COUNTY, TOTAL | 211 | 13 | 848 | 5 312 | 706 | 1 454 | 4 095 | 80 613 | 29 129 | 88 705 | 21 037 | 983 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 211 | 13 | 848 | 5 312 | 706 | 1 454 | 4 095 | 80 613 | 29 129 | 88 705 | 21 037 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 110 | 5 | 298 | 2 032 | 205 | 406 | 1 323 | 72 155 | 22 471 | 75 191 | 19 435 | 342 | (NA) |
| | GALVESTON COUNTY, TOTAL | 88 | 5 | 431 | 2 589 | 364 | 819 | 2 011 | 56 008 | 16 251 | 62 691 | 9 568 | 856 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 856 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 35 | 1 | 187 | 1 119 | 149 | 335 | 760 | 52 642 | 12 594 | 56 419 | 8 817 | 214 | (NA) |
| | GARZA COUNTY, TOTAL | 117 | 2 | 237 | 1 020 | 179 | 361 | 824 | 13 586 | 4 707 | 15 211 | 3 082 | 413 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 117 | 2 | 237 | 1 020 | 179 | 361 | 824 | 13 586 | 4 707 | 15 211 | 3 082 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 81 | 1 | 129 | 625 | 109 | 219 | 470 | 12 437 | 4 058 | 13 489 | 3 006 | 175 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 36 | 1 | 108 | 395 | 70 | 142 | 354 | 1 149 | 649 | 1 722 | 76 | (NA) | (NA) |
| | GLASSCOCK COUNTY, TOTAL | 59 | - | 65 | 428 | 50 | 97 | 289 | 6 922 | 1 695 | 7 320 | 1 297 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 59 | - | 65 | 428 | 50 | 97 | 289 | 6 922 | 1 695 | 7 320 | 1 297 | 112 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 40 | - | 42 | 293 | 29 | 52 | 170 | 6 482 | 1 489 | 6 688 | 1 283 | 85 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 19 | - | 23 | 135 | 21 | 45 | 119 | 440 | 206 | 632 | 14 | (NA) | (NA) |
| | GOLIAD COUNTY, TOTAL | 131 | - | 189 | 1 016 | 171 | 343 | 946 | 11 019 | 5 823 | 14 348 | 2 494 | 242 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 131 | - | 189 | 1 016 | 171 | 343 | 946 | 11 019 | 5 823 | 14 348 | 2 494 | 242 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 81 | - | 86 | 491 | 75 | 154 | 457 | 9 526 | 3 660 | 10 945 | 2 241 | 159 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-------------------------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 131 | GONZALES COUNTY: TOTAL | 22 | 1 | 46 | 156 | 39 | 67 | 113 | 1 120 | 484 | 1 242 | 362 | 15 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 9 | - | 4 | 9 | 3 | 6 | 7 | 815 | 244 | 775 | 284 | (NA) | (NA) |
| 13 131 132 138 | GRAY COUNTY: TOTAL | 177 | 19 | 1 156 | 7 010 | 998 | 2 102 | 5 928 | 48 041 | 23 652 | 62 820 | 8 873 | 1 527 | (NA) |
| | OIL AND GAS EXTRACTION | 177 | 19 | 1 156 | 7 010 | 998 | 2 102 | 5 928 | 48 041 | 23 652 | 62 820 | 8 873 | 1 527 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 103 | 10 | 598 | 3 990 | 513 | 1 041 | 3 375 | 36 387 | 13 437 | 41 962 | 7 862 | 886 | (NA) |
| | NATURAL GAS LIQUIDS | 6 | 4 | 130 | 885 | 113 | 214 | 765 | 7 372 | 8 266 | 15 081 | 557 | 199 | 4 792 |
| | OIL AND GAS FIELD SERVICES | 68 | 5 | 428 | 2 135 | 372 | 847 | 1 788 | 4 282 | 1 949 | 5 777 | 454 | 442 | (NA) |
| 13 131 | GRAYSON COUNTY: TOTAL | 98 | 10 | 519 | 2 869 | 432 | 932 | 2 280 | 28 633 | 13 722 | 35 405 | 6 950 | 317 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM NATURAL GAS | 56 | 2 | 162 | 971 | 125 | 251 | 682 | 21 660 | 8 797 | 24 439 | 6 018 | 185 | (NA) |
| 13 131 132 | GREGG COUNTY: TOTAL | 335 | 23 | 1 737 | 9 740 | 1 370 | 2 762 | 7 371 | 88 356 | 19 280 | 101 261 | 5 693 | 2 403 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 261 | 13 | 1 132 | 6 446 | 839 | 1 676 | 4 559 | 77 107 | 14 487 | 85 849 | 5 063 | 258 | 5 084 |
| 13 131 138 | NATURAL GAS LIQUIDS | 4 | 4 | 142 | 995 | 120 | 228 | 810 | 5 687 | 2 494 | 8 078 | 103 | (NA) | (NA) |
| | GUADALUPE COUNTY: TOTAL | 62 | 2 | 219 | 924 | 172 | 343 | 783 | 7 911 | 2 982 | 10 145 | 748 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 62 | 2 | 219 | 924 | 172 | 343 | 783 | 7 911 | 2 982 | 10 145 | 748 | 270 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 34 | 1 | 86 | 480 | 77 | 140 | 410 | 6 941 | 2 520 | 8 801 | 660 | 193 | (NA) |
| | OIL AND GAS FIELD SERVICES | 28 | 1 | 133 | 444 | 95 | 203 | 373 | 970 | 462 | 1 344 | 88 | (NA) | (NA) |
| 13 131 | HALE COUNTY: TOTAL | 14 | - | 15 | 88 | 12 | 23 | 66 | 3 576 | 2 839 | 6 119 | 296 | (NA) | (NA) |
| | HANSFORD COUNTY: TOTAL | 66 | 5 | 331 | 2 273 | 305 | 706 | 2 051 | 21 712 | 26 432 | 44 067 | 4 077 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 66 | 5 | 331 | 2 273 | 305 | 706 | 2 051 | 21 712 | 26 432 | 44 067 | 4 077 | 237 | (NA) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 46 | 1 | 81 | 623 | 58 | 129 | 419 | 13 148 | 5 978 | 15 355 | 3 771 | (NA) | (NA) |
| | HARDEMAN COUNTY: TOTAL | 40 | 1 | 92 | 441 | 74 | 152 | 413 | 6 941 | 3 299 | 6 560 | 3 680 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 40 | 1 | 92 | 441 | 74 | 152 | 413 | 6 941 | 3 299 | 6 560 | 3 680 | 15 | (NA) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 20 | - | 10 | 26 | 7 | 14 | 19 | 5 219 | 2 526 | 4 438 | 3 307 | (NA) | (NA) |
| | HARDIN COUNTY: TOTAL | 112 | 3 | 465 | 2 562 | 405 | 792 | 2 041 | 23 202 | 11 287 | 31 857 | 2 632 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 646 | (NA) |
| 13 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 56 | 1 | 176 | 1 059 | 128 | 250 | 710 | 18 595 | 5 535 | 21 684 | 2 446 | 360 | (NA) |
| | HARRIS COUNTY: TOTAL | 378 | 61 | 5 721 | 40 340 | 3 582 | 7 721 | 21 867 | 89 061 | 54 334 | 129 181 | 14 214 | 13 273 | (NA) |
| | OIL AND GAS EXTRACTION | 355 | 60 | 5 546 | 39 597 | 3 448 | 7 403 | 21 277 | 86 889 | 52 771 | 125 750 | 13 910 | 13 011 | (NA) |
| 13 131 132 138 14 | CRUDE PETROLEUM AND NATURAL GAS . . | 188 | 27 | 2 825 | 22 463 | 1 357 | 2 794 | 9 338 | 53 715 | 15 375 | 61 378 | 7 712 | 10 522 | (NA) |
| | NATURAL GAS LIQUIDS | 8 | 3 | 131 | 901 | 121 | 253 | 854 | 8 259 | 25 492 | 33 178 | 573 | 151 | 5 488 |
| | OIL AND GAS FIELD SERVICES | 159 | 30 | 2 590 | 16 233 | 1 970 | 4 356 | 11 085 | 24 915 | 11 904 | 31 194 | 5 625 | 2 338 | (NA) |
| | NONMETALLIC MINERALS MINING | 23 | 1 | 175 | 743 | 134 | 318 | 590 | 2 172 | 1 563 | 3 431 | 304 | (NA) | (NA) |
| | HARRISON COUNTY: TOTAL | 85 | 2 | 254 | 1 314 | 224 | 481 | 1 099 | 14 921 | 19 084 | 32 609 | 1 394 | 526 | (NA) |
| 13 131 132 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 60 | - | 112 | 554 | 95 | 190 | 433 | 11 307 | 3 463 | 13 432 | 1 336 | 224 | (NA) |
| | NATURAL GAS LIQUIDS | 5 | 2 | 93 | 495 | 82 | 180 | 422 | 2 649 | 15 351 | 17 990 | 10 | (NA) | (NA) |
| 13 131 | HARTLEY COUNTY: TOTAL | 8 | - | 19 | 133 | 6 | 12 | 24 | 829 | 126 | 950 | 5 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 8 | - | 19 | 133 | 6 | 12 | 24 | 829 | 126 | 950 | 5 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 8 | - | 19 | 133 | 6 | 12 | 24 | 829 | 126 | 950 | 5 | (NA) | (NA) |
| 13 131 138 | HASKELL COUNTY: TOTAL | 96 | 1 | 199 | 995 | 174 | 329 | 839 | 12 257 | 3 258 | 13 166 | 2 349 | 239 | (NA) |
| | OIL AND GAS EXTRACTION | 96 | 1 | 199 | 995 | 174 | 329 | 839 | 12 257 | 3 258 | 13 166 | 2 349 | 239 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 70 | 1 | 123 | 679 | 106 | 198 | 550 | 11 499 | 2 869 | 12 094 | 2 274 | 137 | (NA) |
| 13 131 138 | OIL AND GAS FIELD SERVICES | 26 | - | 76 | 316 | 68 | 131 | 289 | 758 | 389 | 1 072 | 75 | 102 | (NA) |
| | HEMPHILL COUNTY: TOTAL | 28 | 1 | 76 | 531 | 53 | 104 | 340 | 2 783 | 1 836 | 2 073 | 2 546 | 38 | (NA) |
| | OIL AND GAS EXTRACTION | 28 | 1 | 76 | 531 | 53 | 104 | 340 | 2 783 | 1 836 | 2 073 | 2 546 | (NA) | (NA) |
| 13 131 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 17 | 1 | 69 | 497 | 48 | 93 | 318 | 2 362 | 1 522 | 1 384 | 2 500 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 11 | - | 7 | 34 | 5 | 11 | 22 | 421 | 314 | 689 | 46 | (NA) | (NA) |
| | HENDERSON COUNTY: TOTAL | 72 | 5 | 395 | 2 589 | 332 | 706 | 2 132 | 19 975 | 14 049 | 28 296 | 5 728 | 263 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 67 | 5 | 381 | 2 558 | 319 | 677 | 2 102 | 19 920 | 13 996 | 28 191 | 5 725 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 35 | 2 | 213 | 1 676 | 160 | 331 | 1 258 | 14 848 | 3 356 | 14 852 | 3 352 | 125 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | HIDALGO COUNTY, TOTAL | 124 | 11 | 677 | 4 364 | 515 | 1 189 | 3 068 | 43 784 | 26 062 | 60 068 | 9 301 | 752 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 119 | 11 | 657 | 4 332 | 497 | 1 150 | 3 040 | 43 709 | 26 039 | 59 982 | 9 289 | (NA) | (NA) |
| 132 | CRUDE PETROLEUM AND NATURAL GAS . . | 64 | 3 | 195 | 1 520 | 105 | 216 | 755 | 36 486 | 9 125 | 36 790 | 8 344 | 269 | (NA) |
| 138 | NATURAL GAS LIQUIDS | 5 | 1 | 59 | 381 | 56 | 117 | 345 | 2 535 | 14 083 | 16 252 | 366 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 50 | 7 | 403 | 2 431 | 336 | 817 | 1 940 | 4 688 | 2 831 | 6 940 | 579 | 389 | (NA) |
| 13 | HOCKLEY COUNTY, TOTAL | 102 | 6 | 574 | 3 586 | 472 | 915 | 2 773 | 45 337 | 15 316 | 52 910 | 7 743 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 102 | 6 | 574 | 3 586 | 472 | 915 | 2 773 | 45 337 | 15 316 | 52 910 | 7 743 | 836 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 58 | 3 | 271 | 1 972 | 184 | 365 | 1 244 | 36 036 | 11 290 | 40 135 | 7 191 | 378 | (NA) |
| 13 | HOPKINS COUNTY, TOTAL | 31 | - | 73 | 422 | 71 | 143 | 401 | 3 463 | 2 224 | 4 910 | 777 | 134 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 31 | - | 73 | 422 | 71 | 143 | 401 | 3 463 | 2 224 | 4 910 | 777 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 16 | - | 14 | 81 | 12 | 24 | 65 | 2 715 | 1 177 | 3 122 | 770 | 72 | (NA) |
| 13 | HOUSTON COUNTY, TOTAL | 59 | 1 | 179 | 1 000 | 165 | 377 | 923 | 8 789 | 4 731 | 7 476 | 5 875 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 59 | 1 | 179 | 1 000 | 165 | 377 | 923 | 8 789 | 4 731 | 7 476 | 5 875 | 545 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 29 | - | 49 | 217 | 43 | 78 | 188 | 4 600 | 3 815 | 4 962 | 3 284 | 471 | (NA) |
| 13 | HOWARD COUNTY, TOTAL | 161 | 8 | 638 | 3 591 | 557 | 1 232 | 3 098 | 36 703 | 12 558 | 42 325 | 6 936 | 1 026 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 110 | 3 | 283 | 1 669 | 235 | 500 | 1 319 | 31 061 | 9 478 | 33 995 | 6 544 | 619 | (NA) |
| 13 | HUDSPETH COUNTY, TOTAL | 12 | 1 | 71 | 355 | 55 | 145 | 254 | 684 | 273 | 527 | 430 | 23 | (NA) |
| 13 | HUNT COUNTY, TOTAL | 10 | - | 9 | 60 | 6 | 12 | 33 | 422 | 1 730 | 1 932 | 220 | 10 | (NA) |
| | OIL AND GAS EXTRACTION | 10 | - | 9 | 60 | 6 | 12 | 33 | 422 | 1 730 | 1 932 | 220 | (NA) | (NA) |
| 13 | HUTCHINSON COUNTY, TOTAL | 193 | 17 | 1 298 | 8 434 | 1 030 | 2 234 | 6 361 | 69 643 | 117 586 | 175 780 | 11 449 | 2 316 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 132 | CRUDE PETROLEUM AND NATURAL GAS . . | 133 | 6 | 543 | 3 450 | 412 | 843 | 2 420 | 37 718 | 11 807 | 43 066 | 6 459 | 958 | (NA) |
| | NATURAL GAS LIQUIDS | 9 | 5 | 395 | 2 876 | 297 | 575 | 2 077 | 27 320 | 102 624 | 125 722 | 4 222 | (NA) | (NA) |
| 13 | IRION COUNTY, TOTAL | 42 | - | 57 | 349 | 41 | 77 | 187 | 1 902 | 4 383 | 5 358 | 927 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 42 | - | 57 | 349 | 41 | 77 | 187 | 1 902 | 4 383 | 5 358 | 927 | 48 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 28 | - | 26 | 200 | 13 | 21 | 62 | 1 175 | 666 | 1 352 | 489 | 10 | (NA) |
| 13 | JACK COUNTY, TOTAL | 183 | 4 | 567 | 2 791 | 484 | 978 | 2 151 | 14 312 | 6 428 | 17 167 | 3 573 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 183 | 4 | 567 | 2 791 | 484 | 978 | 2 151 | 14 312 | 6 428 | 17 167 | 3 573 | 664 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 121 | 1 | 271 | 1 522 | 207 | 418 | 999 | 10 956 | 4 938 | 12 760 | 3 134 | 321 | (NA) |
| 13 | JACKSON COUNTY, TOTAL | 178 | 8 | 589 | 3 097 | 510 | 1 037 | 2 698 | 46 568 | 20 737 | 62 043 | 5 262 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 178 | 8 | 589 | 3 097 | 510 | 1 037 | 2 698 | 46 568 | 20 737 | 62 043 | 5 262 | 1 077 | (NA) |
| 132 | CRUDE PETROLEUM AND NATURAL GAS . . | 102 | 4 | 232 | 1 281 | 182 | 344 | 1 060 | 41 742 | 11 818 | 48 883 | 4 677 | 667 | (NA) |
| 138 | NATURAL GAS LIQUIDS | 3 | 2 | 77 | 466 | 68 | 126 | 424 | 2 284 | 7 585 | 9 778 | 91 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 73 | 2 | 280 | 1 350 | 260 | 567 | 1 214 | 2 542 | 1 334 | 3 382 | 494 | (NA) | (NA) |
| 13 | JASPER COUNTY, TOTAL | 31 | 1 | 78 | 497 | 65 | 127 | 366 | 3 251 | 1 433 | 3 823 | 861 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 31 | 1 | 78 | 497 | 65 | 127 | 366 | 3 251 | 1 433 | 3 823 | 861 | 28 | (NA) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 14 | - | 14 | 91 | 9 | 9 | 28 | 3 070 | 729 | 3 050 | 749 | 8 | (NA) |
| | OIL AND GAS FIELD SERVICES | 17 | 1 | 64 | 406 | 56 | 118 | 338 | 181 | 704 | 773 | 112 | (NA) | (NA) |
| 13 | JEFFERSON COUNTY, TOTAL | 144 | 18 | 1 513 | 10 303 | 1 205 | 2 421 | 7 668 | 77 697 | 40 252 | 108 141 | 9 808 | 2 113 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 67 | 5 | 629 | 5 110 | 438 | 893 | 3 330 | 52 499 | 10 346 | 56 425 | 6 420 | 1 169 | (NA) |
| | OIL AND GAS FIELD SERVICES | 71 | 10 | 570 | 2 952 | 492 | 974 | 2 453 | 5 509 | 4 147 | 8 570 | 1 086 | (NA) | (NA) |
| 13 | JIM HOGG COUNTY, TOTAL | 58 | 1 | 139 | 617 | 117 | 223 | 460 | 11 136 | 2 734 | 12 189 | 938 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 58 | 1 | 139 | 617 | 117 | 223 | 460 | 11 136 | 2 734 | 12 189 | 938 | 188 | (NA) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 35 | - | 48 | 248 | 35 | 70 | 148 | 10 212 | 2 357 | 10 974 | 852 | 181 | (NA) |
| | OIL AND GAS FIELD SERVICES | 23 | 1 | 91 | 369 | 82 | 153 | 312 | 924 | 377 | 1 215 | 96 | (NA) | (NA) |
| 13 | JIM WELLS COUNTY, TOTAL | 162 | 15 | 1 130 | 6 496 | 958 | 1 917 | 5 466 | 59 116 | 40 446 | 88 222 | 2 477 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 1 154 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | 2 | 245 | 1 518 | 198 | 357 | 1 196 | 36 227 | 15 007 | 41 301 | 1 070 | 479 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|--------------------------------------|-----------------------------|---------------------------|---------------|-----------|--|-----------|-----------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | JONES COUNTY, TOTAL | 167 | 1 | 365 | 1 672 | 309 | 575 | 1 336 | 14 207 | 4 794 | 16 853 | 2 148 | 573 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 119 | - | 218 | 1 064 | 179 | 333 | 821 | 12 694 | 4 021 | 14 761 | 1 954 | 369 | (NA) |
| | KARNES COUNTY, TOTAL | 105 | 4 | 344 | 1 934 | 309 | 642 | 1 656 | 18 942 | 9 911 | 22 750 | 6 103 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 129 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 51 | - | 30 | 170 | 16 | 35 | 95 | 15 171 | 3 810 | 13 860 | 5 121 | 40 | (NA) |
| | KAUFMAN COUNTY, TOTAL | 17 | 1 | 54 | 262 | 45 | 111 | 215 | 2 022 | 1 221 | 2 563 | 680 | 40 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 4 | 23 | 3 | 5 | 12 | 1 393 | 454 | 1 346 | 501 | 13 | (NA) |
| | KENEDY COUNTY, TOTAL | 35 | - | 85 | 564 | 76 | 162 | 479 | 3 531 | 9 687 | 9 793 | 1 027 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 35 | - | 85 | 564 | 76 | 162 | 479 | 3 531 | 9 687 | 9 793 | 1 027 | 73 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 10 | - | 7 | 47 | 7 | 13 | 47 | 1 629 | 2 680 | 1 686 | 225 | (NA) | (NA) |
| | KENT COUNTY, TOTAL | 45 | 2 | 127 | 452 | 120 | 163 | 414 | 13 464 | 1 942 | 14 527 | 879 | 130 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 21 | 1 | 30 | 200 | 29 | 60 | 186 | 12 923 | 1 388 | 13 595 | 716 | 102 | (NA) |
| | KING COUNTY, TOTAL | 22 | - | 19 | 145 | 16 | 31 | 114 | 2 151 | 698 | 2 754 | 95 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 22 | - | 19 | 145 | 16 | 31 | 114 | 2 151 | 698 | 2 754 | 95 | 39 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 13 | - | 11 | 74 | 8 | 18 | 43 | 2 102 | 681 | 2 694 | 89 | 23 | (NA) |
| | KINNEY COUNTY, TOTAL | 4 | - | 5 | 31 | 5 | 12 | 30 | 1 002 | 153 | 1 013 | 142 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 4 | - | 5 | 31 | 5 | 12 | 30 | 1 002 | 153 | 1 013 | 142 | (NA) | (NA) |
| | KLEBERG COUNTY, TOTAL | 85 | 5 | 383 | 2 619 | 312 | 692 | 1 981 | 21 185 | 60 533 | 60 255 | 6 840 | 304 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 22 | 1 | 12 | 97 | 12 | 26 | 97 | 8 517 | 19 334 | 9 082 | 4 146 | 214 | (NA) |
| | KNOX COUNTY, TOTAL | 82 | - | 104 | 409 | 92 | 164 | 326 | 4 628 | 1 521 | 5 597 | 552 | 226 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 82 | - | 104 | 409 | 92 | 164 | 326 | 4 628 | 1 521 | 5 597 | 552 | 226 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 62 | - | 79 | 332 | 70 | 122 | 261 | 4 407 | 1 391 | 5 259 | 539 | 96 | (NA) |
| | LA SALLE COUNTY, TOTAL | 33 | - | 67 | 345 | 51 | 125 | 247 | 983 | 962 | 1 517 | 428 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 33 | - | 67 | 345 | 51 | 125 | 247 | 983 | 962 | 1 517 | 428 | 46 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 15 | - | 22 | 145 | 12 | 24 | 75 | 602 | 712 | 925 | 389 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 18 | - | 45 | 200 | 39 | 101 | 172 | 381 | 250 | 592 | 39 | (NA) | (NA) |
| | LAVACA COUNTY, TOTAL | 70 | 2 | 159 | 939 | 140 | 288 | 811 | 2 684 | 24 997 | 26 583 | 1 098 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 70 | 2 | 159 | 939 | 140 | 288 | 811 | 2 684 | 24 997 | 26 583 | 1 098 | 264 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 36 | - | 25 | 105 | 19 | 30 | 87 | 8 162 | 5 573 | 986 | 78 | (NA) | (NA) |
| | LEON COUNTY, TOTAL | 55 | 1 | 121 | 545 | 100 | 183 | 509 | 5 283 | 5 011 | 7 222 | 3 072 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 55 | 1 | 121 | 545 | 100 | 183 | 509 | 5 283 | 5 011 | 7 222 | 3 072 | 8 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 32 | - | 39 | 116 | 20 | 16 | 93 | 3 539 | 4 023 | 5 432 | 2 130 | 5 | (NA) |
| | LIBERTY COUNTY, TOTAL | 158 | 20 | 1 166 | 7 187 | 934 | 1 992 | 5 249 | 41 595 | 13 417 | 49 469 | 5 543 | 1 464 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 78 | 6 | 391 | 2 832 | 249 | 511 | 1 545 | 30 055 | 9 502 | 34 989 | 4 568 | 600 | (NA) |
| | LIMESTONE COUNTY, TOTAL | 40 | 2 | 158 | 839 | 145 | 318 | 767 | 1 159 | 1 449 | 2 281 | 327 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 40 | 2 | 158 | 839 | 145 | 318 | 767 | 1 159 | 1 449 | 2 281 | 327 | 62 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 26 | 1 | 47 | 228 | 39 | 81 | 181 | 756 | 984 | 1 453 | 287 | 55 | (NA) |
| | LIPSCOMB COUNTY, TOTAL | 55 | 1 | 154 | 1 024 | 124 | 275 | 769 | 8 544 | 6 664 | 6 838 | 8 370 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 55 | 1 | 154 | 1 024 | 124 | 275 | 769 | 8 544 | 6 664 | 6 838 | 8 370 | 152 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 32 | - | 39 | 284 | 22 | 43 | 138 | 7 328 | 5 534 | 4 890 | 7 972 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 23 | 1 | 115 | 740 | 102 | 232 | 631 | 1 216 | 1 130 | 1 948 | 398 | 105 | (NA) |
| | LIVE OAK COUNTY, TOTAL | 128 | 2 | 283 | 1 592 | 245 | 480 | 1 325 | 20 053 | 14 687 | 29 491 | 5 249 | 310 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 72 | - | 124 | 728 | 97 | 183 | 550 | 17 764 | 5 681 | 18 861 | 4 584 | 103 | (NA) |
| | LLANO COUNTY, TOTAL | 7 | 1 | 51 | 230 | 49 | 136 | 213 | 298 | 296 | 546 | 48 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| 13 | LOVING COUNTY, TOTAL | 79 | - | 162 | 800 | 128 | 246 | 595 | 10 113 | 3 682 | 11 840 | 1 955 | 137 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 79 | - | 162 | 800 | 128 | 246 | 595 | 10 113 | 3 682 | 11 840 | 1 955 | 137 | (NA) |
| 138 | CRUDE PETROLEUM AND NATURAL GAS. . | 50 | - | 61 | 372 | 44 | 92 | 206 | 9 281 | 2 842 | 10 238 | 1 885 | 53 | (NA) |
| | OIL AND GAS FIELD SERVICES | 29 | - | 101 | 428 | 84 | 154 | 389 | 832 | 840 | 1 602 | 70 | 84 | (NA) |
| | LUBBOCK COUNTY, TOTAL. | 58 | 2 | 278 | 1 733 | 205 | 419 | 1 190 | 3 980 | 1 449 | 4 715 | 714 | 261 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | 1 | 144 | 1 056 | 98 | 185 | 683 | 2 580 | 845 | 2 841 | 584 | 131 | (NA) |
| | LYNN COUNTY, TOTAL | 27 | - | 18 | 122 | 15 | 32 | 79 | 1 480 | 1 052 | 2 182 | 350 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 27 | - | 18 | 122 | 15 | 32 | 79 | 1 480 | 1 052 | 2 182 | 350 | 18 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 18 | - | 11 | 82 | 8 | 17 | 39 | 1 142 | 893 | 1 688 | 347 | (NA) | (NA) |
| | MCCULLOCH COUNTY, TOTAL. | 8 | 1 | 70 | 330 | 54 | 120 | 219 | 2 010 | 1 284 | 2 394 | 900 | (NA) | (NA) |
| | MCMULLEN COUNTY, TOTAL | 79 | - | 102 | 504 | 76 | 158 | 369 | 9 836 | 3 462 | 11 699 | 1 599 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 79 | - | 102 | 504 | 76 | 158 | 369 | 9 836 | 3 462 | 11 699 | 1 599 | 111 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 46 | - | 64 | 329 | 43 | 83 | 229 | 8 991 | 2 679 | 10 720 | 950 | 39 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 33 | - | 38 | 175 | 33 | 75 | 140 | 845 | 783 | 979 | 649 | (NA) | (NA) |
| | MADISON COUNTY, TOTAL. | 31 | 1 | 125 | 900 | 116 | 287 | 790 | 4 494 | 5 285 | 6 087 | 3 692 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 31 | 1 | 125 | 900 | 116 | 287 | 790 | 4 494 | 5 285 | 6 087 | 3 692 | 56 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 12 | - | 8 | 83 | 4 | 8 | 48 | 3 030 | 2 548 | 2 194 | 3 384 | (NA) | (NA) |
| | MARION COUNTY, TOTAL | 56 | - | 141 | 664 | 115 | 231 | 515 | 4 754 | 1 845 | 5 228 | 1 369 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 56 | - | 141 | 664 | 115 | 231 | 515 | 4 754 | 1 845 | 5 228 | 1 369 | 287 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 44 | - | 102 | 466 | 80 | 147 | 341 | 4 209 | 1 370 | 4 387 | 1 190 | 127 | (NA) |
| | MARTIN COUNTY, TOTAL | 67 | 2 | 212 | 1 338 | 171 | 330 | 852 | 11 846 | 5 296 | 13 099 | 4 043 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 67 | 2 | 212 | 1 338 | 171 | 330 | 852 | 11 846 | 5 296 | 13 099 | 4 043 | 25 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 39 | 1 | 73 | 475 | 40 | 87 | 259 | 9 990 | 3 507 | 9 829 | 3 668 | 19 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 28 | 1 | 139 | 863 | 131 | 243 | 593 | 1 856 | 1 789 | 3 270 | 375 | (NA) | (NA) |
| | MATAGORDA COUNTY, TOTAL. | 144 | 11 | 887 | 5 590 | 746 | 1 596 | 4 462 | 64 095 | 36 623 | 86 559 | 14 159 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 144 | 11 | 887 | 5 590 | 746 | 1 596 | 4 462 | 64 095 | 36 623 | 86 559 | 14 159 | 548 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 67 | 4 | 323 | 2 415 | 229 | 471 | 1 656 | 55 528 | 16 131 | 60 284 | 11 375 | 254 | (NA) |
| 132 | NATURAL GAS LIQUIDS. | 4 | 1 | 69 | 516 | 54 | 96 | 378 | 3 499 | 16 340 | 18 205 | 1 634 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 73 | 6 | 495 | 2 659 | 463 | 1 029 | 2 428 | 5 068 | 4 152 | 8 070 | 1 150 | (NA) | (NA) |
| | MAVERICK COUNTY, TOTAL | 26 | 3 | 121 | 523 | 102 | 199 | 423 | 3 685 | 2 766 | 5 085 | 1 366 | 82 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 8 | 1 | 26 | 190 | 23 | 46 | 173 | 2 991 | 380 | 2 027 | 1 344 | (NA) | (NA) |
| | MEDINA COUNTY, TOTAL | 26 | - | 70 | 373 | 57 | 134 | 315 | 798 | 600 | 927 | 471 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | OIL AND GAS FIELD SERVICES | 7 | - | 32 | 188 | 31 | 80 | 182 | 418 | 233 | 615 | 36 | (NA) | (NA) |
| | MENARD COUNTY, TOTAL | 28 | - | 58 | 390 | 34 | 70 | 222 | 815 | 521 | 1 049 | 287 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 28 | - | 58 | 390 | 34 | 70 | 222 | 815 | 521 | 1 049 | 287 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | - | 28 | 178 | 4 | 6 | 13 | 565 | 385 | 683 | 267 | (NA) | (NA) |
| | MIDLAND COUNTY, TOTAL. | 339 | 52 | 4 213 | 29 098 | 2 595 | 5 312 | 16 259 | (⁴) | 488 099 | 110 712 | 25 254 | 4 808 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 4 808 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 215 | 27 | 2 696 | 20 321 | 1 326 | 2 631 | 9 095 | (⁴) | 472 745 | 79 999 | 20 953 | 3 590 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 115 | 23 | 1 390 | 8 013 | 1 148 | 2 455 | 6 437 | 13 479 | 8 596 | 19 287 | 2 788 | 1 062 | (NA) |
| | MILAM COUNTY, TOTAL. | 19 | 2 | 263 | 1 559 | 148 | 309 | 897 | 12 937 | 1 463 | 14 348 | 52 | (NA) | (NA) |
| | MITCHELL COUNTY, TOTAL | 100 | 1 | 162 | 838 | 132 | 252 | 632 | 6 197 | 3 100 | 7 436 | 1 861 | 196 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 64 | - | 74 | 413 | 59 | 104 | 296 | 4 697 | 2 048 | 5 138 | 1 607 | 98 | (NA) |
| | MONTAGUE COUNTY, TOTAL | 151 | 6 | 598 | 3 037 | 515 | 1 033 | 2 617 | 16 930 | 9 174 | 21 709 | 4 395 | 538 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 92 | 1 | 238 | 1 383 | 209 | 422 | 1 242 | 13 349 | 7 329 | 16 754 | 3 924 | 333 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|---------------------------------------|-----------------------------|---------------------------|---------------|---------|--|-----------|--------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | MONTGOMERY COUNTY, TOTAL | 89 | 9 | 593 | 3 950 | 496 | 981 | 3 233 | 24 430 | 12 536 | 34 689 | 2 277 | 635 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 89 | 9 | 593 | 3 950 | 496 | 981 | 3 233 | 24 430 | 12 536 | 34 689 | 2 277 | 635 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 52 | 4 | 312 | 2 330 | 250 | 526 | 1 779 | 20 628 | 6 397 | 25 422 | 1 603 | 425 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 6 | 3 | 173 | 1 147 | 162 | 319 | 1 070 | 2 891 | 5 406 | 8 008 | 289 | 141 | 2 220 |
| 138 | OIL AND GAS FIELD SERVICES | 31 | 2 | 108 | 473 | 84 | 136 | 384 | 911 | 733 | 1 259 | 385 | 69 | (NA) |
| | MOORE COUNTY, TOTAL | 50 | 5 | 402 | 2 667 | 362 | 718 | 2 321 | 39 269 | 56 093 | 91 654 | 3 708 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 50 | 5 | 402 | 2 667 | 362 | 718 | 2 321 | 39 269 | 56 093 | 91 654 | 3 708 | 508 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 26 | 2 | 108 | 714 | 91 | 187 | 559 | 21 310 | 3 729 | 24 076 | 963 | 232 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 8 | 3 | 234 | 1 663 | 219 | 420 | 1 509 | 17 535 | 52 142 | 66 960 | 2 717 | 236 | 12 943 |
| 138 | OIL AND GAS FIELD SERVICES | 16 | - | 60 | 290 | 52 | 111 | 253 | 424 | 222 | 618 | 28 | (NA) | (NA) |
| | MOTLEY COUNTY, TOTAL | 17 | - | 14 | 78 | 13 | 17 | 71 | 827 | 230 | 1 038 | 19 | 43 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 7 | - | 4 | 37 | 3 | 4 | 31 | 705 | 195 | 885 | 15 | (NA) | (NA) |
| | NACOGDOCHES COUNTY, TOTAL | 16 | 1 | 77 | 337 | 63 | 132 | 231 | 853 | 1 540 | 1 458 | 155 | 81 | (NA) |
| | NAVARRO COUNTY, TOTAL | 55 | 1 | 188 | 803 | 157 | 329 | 628 | 3 175 | 2 140 | 4 406 | 909 | 250 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 33 | - | 85 | 330 | 58 | 96 | 187 | 2 178 | 1 314 | 2 715 | 777 | 196 | (NA) |
| | NEWTON COUNTY, TOTAL | 45 | - | 106 | 595 | 96 | 216 | 498 | 8 519 | 2 344 | 8 617 | 2 246 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 45 | - | 106 | 595 | 96 | 216 | 498 | 8 519 | 2 344 | 8 617 | 2 246 | 100 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 22 | - | 13 | 83 | 7 | 15 | 41 | 7 626 | 1 894 | 7 375 | 2 145 | 7 | (NA) |
| | NOLAN COUNTY, TOTAL | 105 | 4 | 361 | 1 935 | 317 | 753 | 1 602 | 16 225 | 7 497 | 20 730 | 2 992 | 456 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 62 | 1 | 111 | 680 | 95 | 201 | 548 | 13 141 | 4 382 | 14 914 | 2 609 | 205 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 4 | - | 39 | 223 | 37 | 80 | 211 | 1 105 | 2 172 | 3 048 | 229 | (NA) | (NA) |
| | NUECES COUNTY, TOTAL | 249 | 36 | 2 507 | 17 264 | 1 747 | 3 855 | 11 218 | 64 067 | 59 077 | 110 066 | 10 852 | 2 695 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 122 | 16 | 1 324 | 9 906 | 731 | 1 507 | 4 985 | 46 197 | 15 501 | 51 139 | 8 333 | 1 736 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 13 | 6 | 247 | 1 819 | 234 | 525 | 1 713 | 8 732 | 38 084 | 45 976 | 840 | (NA) | (NA) |
| | OCHILTREE COUNTY, TOTAL | 117 | 11 | 705 | 4 403 | 604 | 1 228 | 3 601 | 37 253 | 24 778 | 46 312 | 15 719 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 503 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 64 | 1 | 146 | 1 059 | 109 | 219 | 736 | 29 251 | 14 340 | 28 289 | 15 302 | 185 | (NA) |
| | ORANGE COUNTY, TOTAL | 70 | 6 | 284 | 1 575 | 210 | 409 | 1 043 | 8 338 | 3 544 | 10 158 | 1 724 | 543 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | 3 | 126 | 819 | 78 | 136 | 396 | 7 676 | 2 360 | 8 416 | 1 620 | 355 | (NA) |
| | PALO PINTO COUNTY, TOTAL | 56 | 1 | 116 | 522 | 101 | 214 | 454 | 3 178 | 6 598 | 8 266 | 1 510 | 115 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 108 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 33 | - | 23 | 87 | 18 | 25 | 64 | 2 094 | 677 | 1 592 | 1 179 | (NA) | (NA) |
| | PANOLA COUNTY, TOTAL | 98 | 8 | 581 | 3 312 | 478 | 1 031 | 2 690 | 45 740 | 49 281 | 89 262 | 5 596 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 98 | 8 | 581 | 3 312 | 478 | 1 031 | 2 690 | 45 740 | 49 281 | 89 262 | 5 596 | 555 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 65 | 3 | 266 | 1 516 | 195 | 416 | 1 050 | 37 992 | 7 919 | 40 705 | 5 043 | 244 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 5 | 4 | 201 | 1 362 | 184 | 407 | 1 237 | 6 449 | 40 847 | 46 935 | 361 | 252 | 16 313 |
| 138 | OIL AND GAS FIELD SERVICES | 28 | 1 | 114 | 434 | 99 | 208 | 403 | 1 299 | 515 | 1 622 | 192 | (NA) | (NA) |
| | PARKER COUNTY, TOTAL | 21 | 1 | 65 | 349 | 61 | 122 | 333 | 3 351 | 7 137 | 9 457 | 1 031 | 57 | (NA) |
| | PECOS COUNTY, TOTAL | 226 | 11 | 881 | 5 395 | 712 | 1 519 | 4 153 | 59 110 | 29 600 | 70 263 | 18 447 | 1 191 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 138 | 5 | 450 | 2 937 | 346 | 727 | 2 088 | 51 069 | 14 262 | 49 610 | 15 721 | 528 | (NA) |
| | POLK COUNTY, TOTAL | 51 | 1 | 126 | 706 | 93 | 189 | 450 | 4 109 | 1 329 | 5 089 | 349 | 161 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 30 | - | 59 | 345 | 31 | 64 | 153 | 3 628 | 1 111 | 4 442 | 297 | 76 | (NA) |
| | POTTER COUNTY, TOTAL | 60 | 8 | 423 | 3 032 | 165 | 302 | 1 059 | 22 074 | 9 939 | 28 387 | 3 626 | 831 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 56 | 6 | 345 | 2 644 | 109 | 204 | 735 | 20 102 | 9 084 | 26 023 | 3 163 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 4 | 2 | 78 | 388 | 56 | 98 | 324 | 1 972 | 855 | 2 364 | 463 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 4 | 2 | 78 | 388 | 56 | 98 | 324 | 1 972 | 855 | 2 364 | 463 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-------------------------|--------------------------------------|-----------------------------|--|-------------------|----------------------|---|----------------------|--------------------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total (number) | With 20 employ- ees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | | | | | |
| 13 131 | REAGAN COUNTY, TOTAL | 109 | 4 | 392 | 2 276 | 305 | 542 | 1 667 | 15 327 | 15 237 | 26 673 | 3 891 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 109 | 4 | 392 | 2 276 | 305 | 542 | 1 667 | 15 327 | 15 237 | 26 673 | 3 891 | 529 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 76 | 1 | 147 | 1 055 | 103 | 188 | 655 | 12 903 | 4 754 | 14 300 | 3 357 | 294 | (NA) |
| 13 131 | REEVES COUNTY, TOTAL | 106 | 7 | 404 | 2 295 | 334 | 759 | 1 890 | 15 265 | 7 522 | 15 731 | 7 056 | 170 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 56 | 2 | 87 | 663 | 64 | 143 | 461 | 10 195 | 4 358 | 8 081 | 6 472 | 76 | (NA) |
| 13 131 | REFUGIO COUNTY, TOTAL | 142 | 11 | 690 | 4 626 | 562 | 1 237 | 3 532 | 71 155 | 20 937 | 86 025 | 6 067 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 142 | 11 | 690 | 4 626 | 562 | 1 237 | 3 532 | 71 155 | 20 937 | 86 025 | 6 067 | 658 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 78 | 6 | 387 | 2 961 | 283 | 627 | 2 099 | 66 977 | 11 479 | 72 786 | 5 670 | 341 | (NA) |
| 13 131 | ROBERTS COUNTY, TOTAL | 40 | - | 66 | 424 | 52 | 129 | 319 | 5 034 | 2 896 | 5 984 | 1 946 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | 115 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 28 | - | 33 | 207 | 21 | 45 | 129 | 4 537 | 2 595 | 5 225 | 1 907 | 62 | (NA) |
| 13 131 138 | ROBERTSON COUNTY, TOTAL | 10 | 1 | 33 | 176 | 28 | 73 | 141 | 260 | 448 | 601 | 107 | 53 | (NA) |
| | RUNNELS COUNTY, TOTAL | 130 | 2 | 359 | 1 769 | 308 | 644 | 1 522 | 11 995 | 7 197 | 15 113 | 4 079 | 570 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 132 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 83 | - | 115 | 554 | 90 | 163 | 431 | 8 718 | 4 557 | 9 707 | 3 568 | 278 | (NA) |
| | OIL AND GAS FIELD SERVICES | 43 | 1 | 202 | 954 | 181 | 402 | 864 | 2 800 | 1 351 | 3 753 | 398 | 226 | (NA) |
| | RUSK COUNTY, TOTAL | 217 | 12 | 1 010 | 5 619 | 845 | 1 727 | 4 558 | 44 974 | 20 038 | 59 972 | 3 599 | 1 650 | (NA) |
| 13 131 132 138 | OIL AND GAS EXTRACTION | 217 | 12 | 1 010 | 5 619 | 845 | 1 727 | 4 558 | 44 974 | 20 038 | 59 972 | 3 599 | (NA) | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 158 | 4 | 545 | 3 337 | 420 | 835 | 2 413 | 40 648 | 8 446 | 44 389 | 3 264 | 1 114 | (NA) |
| | NATURAL GAS LIQUIDS | 4 | 3 | 82 | 542 | 81 | 166 | 537 | 998 | 10 206 | 11 183 | 21 | (NA) | (NA) |
| 13 131 | OIL AND GAS FIELD SERVICES | 55 | 5 | 383 | 1 740 | 344 | 726 | 1 608 | 3 328 | 1 386 | 4 400 | 314 | 316 | (NA) |
| | SAN JACINTO COUNTY, TOTAL | 25 | 1 | 64 | 333 | 57 | 112 | 278 | 2 162 | 877 | 2 796 | 243 | 34 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 131 132 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 15 | - | 15 | 83 | 12 | 25 | 60 | 1 854 | 690 | 2 319 | 225 | 12 | (NA) |
| | SAN PATRICIO COUNTY, TOTAL | 184 | 8 | 675 | 3 872 | 583 | 1 264 | 3 192 | 36 853 | 18 515 | 48 718 | 5 735 | 866 | (NA) |
| | OIL AND GAS EXTRACTION | 181 | 8 | 661 | 3 803 | 569 | 1 223 | 3 123 | 36 739 | 18 443 | 48 540 | 5 727 | (NA) | (NA) |
| 13 131 132 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 107 | 3 | 279 | 1 790 | 216 | 438 | 1 333 | 30 873 | 8 477 | 33 444 | 4 991 | 462 | (NA) |
| | NATURAL GAS LIQUIDS | 3 | 2 | 62 | 430 | 59 | 120 | 398 | 2 764 | 8 085 | 10 506 | 343 | (NA) | (NA) |
| | OIL AND GAS FIELD SERVICES | 71 | 3 | 320 | 1 583 | 294 | 665 | 1 392 | 3 102 | 1 881 | 4 590 | 393 | (NA) | (NA) |
| 13 131 | SCHLEICHER COUNTY, TOTAL | 69 | 2 | 149 | 1 099 | 129 | 305 | 917 | 9 371 | 5 629 | 13 235 | 1 765 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 69 | 2 | 149 | 1 099 | 129 | 305 | 917 | 9 371 | 5 629 | 13 235 | 1 765 | 225 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 47 | - | 43 | 323 | 28 | 50 | 178 | 6 601 | 3 039 | 8 330 | 1 310 | 104 | (NA) |
| 13 131 132 | SCURRY COUNTY, TOTAL | 183 | 14 | 888 | 5 509 | 690 | 1 472 | 4 054 | 88 611 | 22 893 | 108 398 | 3 106 | 1 608 | (NA) |
| | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 117 | 4 | 350 | 2 419 | 216 | 438 | 1 325 | 75 625 | 16 662 | 90 044 | 2 243 | 684 | (NA) |
| 13 131 138 | NATURAL GAS LIQUIDS | 4 | 4 | 155 | 1 038 | 143 | 281 | 941 | 8 882 | 4 035 | 12 690 | 227 | (NA) | (NA) |
| | SHACKELFORD COUNTY, TOTAL | 173 | 3 | 317 | 1 386 | 279 | 486 | 1 175 | 11 897 | 3 804 | 13 207 | 2 494 | (NA) | (NA) |
| | OIL AND GAS EXTRACTION | 173 | 3 | 317 | 1 386 | 279 | 486 | 1 175 | 11 897 | 3 804 | 13 207 | 2 494 | 470 | (NA) |
| 13 131 138 | CRUDE PETROLEUM AND NATURAL GAS . . | 118 | 3 | 243 | 1 097 | 208 | 360 | 907 | 11 110 | 3 302 | 12 018 | 2 394 | 327 | (NA) |
| | OIL AND GAS FIELD SERVICES | 55 | - | 74 | 289 | 71 | 126 | 268 | 787 | 502 | 1 189 | 100 | (NA) | (NA) |
| | SHELBY COUNTY, TOTAL | 17 | - | 19 | 91 | 15 | 27 | 60 | 1 745 | 317 | 1 803 | 259 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 17 | - | 19 | 91 | 15 | 27 | 60 | 1 745 | 317 | 1 803 | 259 | 44 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 12 | - | 9 | 36 | 8 | 15 | 31 | 1 606 | 242 | 1 590 | 258 | (NA) | (NA) |
| | SHERMAN COUNTY, TOTAL | 31 | - | 39 | 275 | 34 | 83 | 226 | 9 017 | 3 055 | 11 571 | 501 | (NA) | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | 31 | - | 39 | 275 | 34 | 83 | 226 | 9 017 | 3 055 | 11 571 | 501 | 31 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 23 | - | 12 | 89 | 8 | 16 | 55 | 8 795 | 2 967 | 11 264 | 498 | 18 | (NA) |
| | SMITH COUNTY, TOTAL | 106 | 15 | 938 | 6 274 | 661 | 1 328 | 3 787 | 15 134 | 5 280 | 17 298 | 2 973 | 925 | (NA) |
| 13 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | CRUDE PETROLEUM AND NATURAL GAS . . | 57 | 10 | 617 | 4 318 | 384 | 759 | 2 308 | 11 138 | 2 154 | 10 626 | 2 523 | 672 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|--------------------------------------|-----------------------------|---------------------------|---------------|---------|--|-----------|-------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | STARR COUNTY, TOTAL | 111 | 5 | 499 | 2 945 | 444 | 905 | 2 525 | 26 763 | 10 032 | 34 391 | 1 952 | 434 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 65 | 2 | 207 | 1 359 | 177 | 351 | 1 130 | 19 706 | 3 523 | 21 215 | 1 562 | 198 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 3 | 2 | 86 | 640 | 83 | 165 | 612 | 5 521 | 5 407 | 10 688 | 240 | (NA) | (NA) |
| 13 | STEPHENS COUNTY, TOTAL | 140 | 2 | 375 | 1 811 | 316 | 635 | 1 447 | 9 177 | 3 981 | 10 095 | 3 063 | 588 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 90 | - | 150 | 574 | 122 | 213 | 451 | 6 872 | 2 498 | 6 492 | 2 878 | 269 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 44 | 1 | 152 | 701 | 130 | 286 | 514 | 1 111 | 657 | 1 628 | 140 | 208 | (NA) |
| 13 | STERLING COUNTY, TOTAL | 40 | - | 50 | 197 | 41 | 79 | 136 | 1 559 | 1 400 | 1 957 | 1 002 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 40 | - | 50 | 197 | 41 | 79 | 136 | 1 559 | 1 400 | 1 957 | 1 002 | 33 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 25 | - | 20 | 102 | 13 | 23 | 55 | 1 447 | 833 | 1 359 | 921 | 27 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 15 | - | 30 | 95 | 28 | 56 | 81 | 112 | 567 | 598 | 81 | (NA) | (NA) |
| 13 | STONEWALL COUNTY, TOTAL | 86 | 3 | 312 | 1 762 | 265 | 571 | 1 432 | 16 681 | 4 170 | 17 373 | 3 478 | 342 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 60 | 1 | 185 | 1 130 | 147 | 287 | 852 | 15 248 | 3 228 | 15 077 | 3 399 | 177 | (NA) |
| 13 | SUTTON COUNTY, TOTAL | 21 | 1 | 47 | 313 | 37 | 79 | 240 | 2 566 | 2 175 | 2 384 | 2 357 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 21 | 1 | 47 | 313 | 37 | 79 | 240 | 2 566 | 2 175 | 2 384 | 2 357 | 173 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 12 | 1 | 44 | 299 | 34 | 73 | 227 | 1 923 | 1 816 | 1 665 | 2 074 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | - | 3 | 14 | 3 | 6 | 13 | 643 | 359 | 719 | 283 | 61 | (NA) |
| 13 | TARRANT COUNTY, TOTAL | 58 | 8 | 456 | 2 593 | 245 | 551 | 1 197 | 7 136 | 2 925 | 9 406 | 655 | 1 593 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 42 | 4 | 280 | 1 805 | 105 | 221 | 607 | 5 745 | 1 056 | 6 379 | 422 | 1 514 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | 2 | 171 | 1 161 | 31 | 62 | 199 | 5 167 | 786 | 5 696 | 257 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | 2 | 109 | 644 | 74 | 159 | 408 | 578 | 270 | 683 | 165 | (NA) | (NA) |
| 13 | TAYLOR COUNTY, TOTAL | 234 | 10 | 1 226 | 7 272 | 840 | 1 748 | 4 354 | 31 945 | 9 553 | 36 683 | 4 815 | 1 135 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 157 | 4 | 659 | 4 367 | 349 | 644 | 1 870 | 26 133 | 5 964 | 28 308 | 3 789 | 509 | (NA) |
| 13 | TERRELL COUNTY, TOTAL | 16 | 1 | 66 | 539 | 55 | 142 | 422 | 4 395 | 2 955 | 4 999 | 2 351 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 16 | 1 | 66 | 539 | 55 | 142 | 422 | 4 395 | 2 955 | 4 999 | 2 351 | 96 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 9 | - | 11 | 77 | 9 | 20 | 56 | 3 950 | 2 184 | 3 786 | 2 348 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 7 | 1 | 55 | 462 | 46 | 122 | 366 | 445 | 771 | 1 213 | 3 | (NA) | (NA) |
| 13 | TERRY COUNTY, TOTAL | 58 | 4 | 373 | 2 572 | 298 | 667 | 1 894 | 15 135 | 4 985 | 18 290 | 1 830 | 468 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 33 | 2 | 213 | 1 656 | 152 | 292 | 1 094 | 11 666 | 3 325 | 13 342 | 1 649 | 221 | (NA) |
| 13 | THROCKMORTON COUNTY, TOTAL | 140 | - | 173 | 673 | 158 | 306 | 603 | 8 007 | 2 866 | 8 731 | 2 142 | 332 | (NA) |
| 131 | OIL AND GAS EXTRACTION | 140 | - | 173 | 673 | 158 | 306 | 603 | 8 007 | 2 866 | 8 731 | 2 142 | 332 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 101 | - | 119 | 473 | 106 | 191 | 416 | 7 393 | 2 555 | 7 849 | 2 099 | 210 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 39 | - | 54 | 200 | 52 | 115 | 187 | 614 | 311 | 882 | 43 | 122 | (NA) |
| 13 | TITUS COUNTY, TOTAL | 48 | 2 | 213 | 1 047 | 177 | 345 | 826 | 5 776 | 2 605 | 7 194 | 519 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 48 | 2 | 213 | 1 047 | 177 | 345 | 826 | 5 776 | 2 605 | 7 194 | 519 | 251 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 26 | 2 | 115 | 692 | 84 | 185 | 495 | 5 216 | 1 973 | 6 051 | 470 | 157 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 22 | - | 98 | 355 | 93 | 160 | 331 | 560 | 632 | 1 143 | 49 | (NA) | (NA) |
| 13 | TOM GREEN COUNTY, TOTAL | 85 | 4 | 326 | 1 614 | 285 | 580 | 1 344 | 8 365 | 5 155 | 10 485 | 3 035 | 285 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 49 | - | 62 | 344 | 52 | 88 | 262 | 6 120 | 3 285 | 6 883 | 2 522 | 159 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 31 | 3 | 202 | 1 070 | 175 | 364 | 889 | 1 894 | 1 375 | 2 829 | 440 | (NA) | (NA) |
| 13 | TRAVIS COUNTY, TOTAL | 15 | - | 41 | 145 | 35 | 71 | 119 | 3 363 | 474 | 3 587 | 250 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 8 | - | 8 | 30 | 4 | 7 | 12 | 2 883 | 419 | 3 060 | 242 | (NA) | (NA) |
| 13 | TYLER COUNTY, TOTAL | 32 | - | 53 | 243 | 47 | 103 | 213 | 3 766 | 1 308 | 4 687 | 387 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 32 | - | 53 | 243 | 47 | 103 | 213 | 3 766 | 1 308 | 4 687 | 387 | 90 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 10 | - | 3 | 27 | 2 | 5 | 21 | 3 431 | 1 050 | 4 216 | 265 | 26 | (NA) |
| 13 | UPSHUR COUNTY, TOTAL | 55 | 1 | 109 | 587 | 98 | 204 | 504 | 4 388 | 1 512 | 5 297 | 461 | 101 | (NA) |
| 131 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 30 | - | 36 | 196 | 35 | 67 | 172 | 3 600 | 1 067 | 4 168 | 357 | 92 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---------------------------------------|-----------------------------|--|-------------------|----------------------|---|----------------------|--------------------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total (number) | With 20 employ- ees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | | | | | |
| | UPTON COUNTY, TOTAL | 168 | 11 | 726 | 4 290 | 613 | 1 414 | 3 773 | 39 190 | 24 790 | 45 788 | 18 192 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 168 | 11 | 726 | 4 290 | 613 | 1 414 | 3 773 | 39 190 | 24 790 | 45 788 | 18 192 | 1 031 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 98 | 1 | 167 | 961 | 144 | 291 | 827 | 29 711 | 18 833 | 31 542 | 17 002 | 398 | (NA) |
| | UVALDE COUNTY, TOTAL | 13 | 2 | 177 | 768 | 171 | 358 | 724 | 2 313 | 1 320 | 2 893 | 740 | (NA) | (NA) |
| | VAL VERDE COUNTY, TOTAL | 10 | - | 3 | 27 | 3 | 8 | 25 | 1 387 | 201 | 1 540 | 48 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 10 | - | 3 | 27 | 3 | 8 | 25 | 1 387 | 201 | 1 540 | 48 | 50 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 6 | - | 1 | 14 | 1 | 2 | 14 | 1 210 | 127 | 1 289 | 48 | (NA) | (NA) |
| | VAN ZANDT COUNTY, TOTAL | 49 | 3 | 543 | 3 605 | 510 | 972 | 3 362 | 14 375 | 4 820 | 16 806 | 2 389 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 49 | 3 | 543 | 3 605 | 510 | 972 | 3 362 | 14 375 | 4 820 | 16 806 | 2 389 | 295 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 23 | 1 | 141 | 925 | 125 | 255 | 803 | 13 584 | 2 209 | 14 539 | 1 254 | 206 | (NA) |
| | VICTORIA COUNTY, TOTAL | 162 | 9 | 652 | 4 076 | 538 | 1 203 | 3 086 | 28 148 | 9 927 | 34 092 | 3 983 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 159 | 7 | 579 | 3 811 | 474 | 1 070 | 2 850 | 27 656 | 9 659 | 33 392 | 3 923 | 655 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 84 | 3 | 253 | 1 759 | 209 | 435 | 1 306 | 23 306 | 7 044 | 26 723 | 3 627 | 289 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 3 | 2 | 73 | 265 | 64 | 133 | 236 | 492 | 268 | 700 | 60 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 3 | 2 | 73 | 265 | 64 | 133 | 236 | 492 | 268 | 700 | 60 | (NA) | (NA) |
| | WALKER COUNTY, TOTAL | 11 | - | 37 | 157 | 34 | 71 | 126 | 432 | 277 | 639 | 70 | 73 | (NA) |
| | WALLER COUNTY, TOTAL | 15 | 1 | 224 | 1 702 | 175 | 372 | 1 203 | 26 133 | 14 382 | 40 340 | 175 | (NA) | (NA) |
| | WARD COUNTY, TOTAL | 188 | 23 | 1 407 | 8 814 | 1 155 | 2 582 | 6 911 | 76 655 | 25 622 | 87 436 | 14 841 | 1 343 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 92 | 7 | 513 | 3 644 | 358 | 711 | 2 341 | 64 318 | 18 733 | 69 408 | 13 643 | 700 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 91 | 14 | 796 | 4 504 | 710 | 1 667 | 3 977 | 9 059 | 4 385 | 12 576 | 868 | 543 | (NA) |
| | WASHINGTON COUNTY, TOTAL | 7 | 1 | 49 | 413 | 34 | 77 | 250 | 578 | 297 | 718 | 157 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 7 | 1 | 49 | 413 | 34 | 77 | 250 | 578 | 297 | 718 | 157 | (NA) | (NA) |
| | WEBB COUNTY, TOTAL | 97 | 2 | 254 | 1 095 | 203 | 394 | 882 | 23 332 | 3 891 | 23 477 | 3 746 | 223 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 138 | OIL AND GAS FIELD SERVICES | 34 | 1 | 89 | 414 | 63 | 163 | 383 | 752 | 378 | 1 056 | 74 | (NA) | (NA) |
| | WHARTON COUNTY, TOTAL | 138 | 10 | 1 144 | 7 415 | 847 | 1 795 | 4 948 | 54 974 | 12 609 | 59 395 | 8 188 | 1 311 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 81 | 2 | 253 | 1 605 | 163 | 306 | 883 | 25 750 | 6 617 | 25 183 | 7 184 | 302 | (NA) |
| | WHEELER COUNTY, TOTAL | 91 | 2 | 255 | 1 423 | 210 | 451 | 1 082 | 7 241 | 3 339 | 8 692 | 1 888 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 91 | 2 | 255 | 1 423 | 210 | 451 | 1 082 | 7 241 | 3 339 | 8 692 | 1 888 | 268 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 62 | 1 | 119 | 690 | 85 | 170 | 445 | 4 971 | 2 013 | 5 254 | 1 730 | 99 | (NA) |
| | WICHITA COUNTY, TOTAL | 426 | 19 | 1 761 | 8 847 | 1 271 | 2 659 | 5 939 | 59 457 | 18 674 | 67 748 | 10 383 | 2 107 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 312 | 11 | 1 126 | 5 936 | 715 | 1 487 | 3 425 | 53 176 | 15 371 | 59 207 | 9 340 | 1 380 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 108 | 7 | 549 | 2 523 | 471 | 1 012 | 2 135 | 5 448 | 2 835 | 7 306 | 977 | 640 | (NA) |
| | WILBARGER COUNTY, TOTAL | 115 | 3 | 390 | 1 796 | 358 | 695 | 1 606 | 13 616 | 4 905 | 16 318 | 2 203 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 115 | 3 | 390 | 1 796 | 358 | 695 | 1 606 | 13 616 | 4 905 | 16 318 | 2 203 | 495 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 80 | 2 | 199 | 961 | 174 | 372 | 810 | 12 268 | 4 438 | 14 528 | 2 178 | 341 | (NA) |
| | WILLACY COUNTY, TOTAL | 28 | - | 56 | 270 | 49 | 97 | 212 | 4 964 | 2 282 | 4 950 | 1 576 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 28 | - | 56 | 270 | 49 | 97 | 212 | 4 964 | 2 282 | 4 950 | 1 576 | 117 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 12 | - | 10 | 61 | 10 | 20 | 61 | 4 417 | 1 953 | 4 175 | 1 475 | 28 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | - | 46 | 209 | 39 | 77 | 151 | 547 | 329 | 775 | 101 | (NA) | (NA) |
| | WILSON COUNTY, TOTAL | 49 | - | 50 | 217 | 39 | 79 | 143 | 1 768 | 636 | 2 073 | 331 | 132 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 49 | - | 50 | 217 | 39 | 79 | 143 | 1 768 | 636 | 2 073 | 331 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | - | 20 | 104 | 14 | 21 | 50 | 1 417 | 401 | 1 522 | 296 | 39 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 18 | - | 30 | 113 | 25 | 58 | 93 | 351 | 235 | 551 | 35 | (NA) | (NA) |

See footnotes at end of table.

**TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued**

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | WINKLER COUNTY, TOTAL | 173 | 20 | 1 349 | 8 678 | 1 137 | 2 428 | 6 787 | 74 766 | 30 821 | 90 932 | 14 655 | 2 134 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 173 | 20 | 1 349 | 8 678 | 1 137 | 2 428 | 6 787 | 74 766 | 30 821 | 90 932 | 14 655 | 2 134 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 96 | 7 | 584 | 4 236 | 436 | 900 | 2 870 | 58 545 | 18 205 | 64 223 | 12 527 | 1 002 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 8 | 3 | 168 | 1 168 | 157 | 319 | 1 071 | 9 709 | 8 361 | 16 420 | 1 650 | 162 | 3 923 |
| 138 | OIL AND GAS FIELD SERVICES | 69 | 10 | 597 | 3 274 | 544 | 1 209 | 2 846 | 6 512 | 4 255 | 10 289 | 478 | 970 | (NA) |
| | WISE COUNTY, TOTAL | 147 | 13 | 916 | 5 116 | 735 | 1 652 | 3 633 | 30 660 | 20 739 | 42 880 | 8 519 | 895 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 142 | 9 | 606 | 3 481 | 455 | 961 | 2 388 | 27 802 | 16 897 | 37 766 | 6 933 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 89 | 1 | 163 | 1 152 | 98 | 181 | 495 | 17 935 | 7 789 | 19 434 | 6 290 | 220 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | 4 | 310 | 1 635 | 280 | 691 | 1 245 | 2 858 | 3 842 | 5 114 | 1 586 | (NA) | (NA) |
| | WOOD COUNTY, TOTAL | 116 | 7 | 491 | 2 479 | 414 | 851 | 2 014 | 27 475 | 15 099 | 35 510 | 4 349 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 116 | 7 | 491 | 2 479 | 414 | 851 | 2 014 | 27 475 | 15 099 | 35 510 | 4 349 | 603 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 78 | 1 | 217 | 1 173 | 161 | 327 | 825 | 22 350 | 7 080 | 24 873 | 1 842 | 334 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 3 | 2 | 58 | 390 | 55 | 119 | 368 | 3 184 | 6 864 | 7 724 | 2 324 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 35 | 4 | 216 | 916 | 198 | 405 | 821 | 1 941 | 1 155 | 2 913 | 183 | (NA) | (NA) |
| | YOAKUM COUNTY, TOTAL | 180 | 9 | 727 | 4 109 | 633 | 1 275 | 3 293 | 58 182 | 19 639 | 65 413 | 12 408 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 180 | 9 | 727 | 4 109 | 633 | 1 275 | 3 293 | 58 182 | 19 639 | 65 413 | 12 408 | 943 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 104 | 1 | 191 | 1 352 | 152 | 301 | 957 | 48 370 | 13 445 | 50 360 | 11 455 | 451 | (NA) |
| | YOUNG COUNTY, TOTAL | 304 | 5 | 942 | 3 748 | 777 | 1 513 | 2 988 | 19 518 | 7 865 | 23 992 | 3 391 | 1 153 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 204 | 1 | 434 | 1 691 | 339 | 652 | 1 227 | 14 693 | 5 328 | 17 184 | 2 837 | 605 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 95 | 4 | 481 | 1 935 | 411 | 801 | 1 639 | 4 397 | 2 261 | 6 108 | 550 | 511 | (NA) |
| | ZAPATA COUNTY, TOTAL | 76 | 1 | 186 | 970 | 146 | 331 | 742 | 6 845 | 2 959 | 6 442 | 3 362 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 76 | 1 | 186 | 970 | 146 | 331 | 742 | 6 845 | 2 959 | 6 442 | 3 362 | 91 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 41 | 1 | 92 | 495 | 66 | 134 | 340 | 5 996 | 2 334 | 5 094 | 3 236 | 68 | (NA) |
| | ZAVALA COUNTY, TOTAL | 21 | - | 36 | 151 | 34 | 71 | 144 | 1 298 | 416 | 1 483 | 231 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 21 | - | 36 | 151 | 34 | 71 | 144 | 1 298 | 416 | 1 483 | 231 | 61 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 8 | - | 7 | 41 | 6 | 8 | 39 | 933 | 153 | 901 | 185 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 13 | - | 29 | 110 | 28 | 63 | 105 | 365 | 263 | 582 | 46 | (NA) | (NA) |
| | OFFSHORE, TOTAL | 40 | 6 | 345 | 1 919 | 275 | 587 | 1 362 | 10 125 | 4 740 | 10 472 | 4 393 | 298 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 40 | 6 | 345 | 1 919 | 275 | 587 | 1 362 | 10 125 | 4 740 | 10 472 | 4 393 | 298 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 17 | 1 | 59 | 405 | 25 | 35 | 121 | 8 277 | 3 462 | 7 411 | 4 328 | 34 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 23 | 5 | 286 | 1 514 | 250 | 552 | 1 241 | 1 848 | 1 278 | 3 061 | 65 | 264 | (NA) |
| | UNDISTRIBUTED, TOTAL | 383 | 26 | 3 425 | 18 887 | 2 636 | 5 809 | 13 458 | 54 344 | 33 455 | 80 040 | 7 759 | 8 939 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 383 | 26 | 3 425 | 18 887 | 2 636 | 5 809 | 13 458 | 54 344 | 33 455 | 80 040 | 7 759 | 8 939 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 129 | 11 | 909 | 4 476 | 647 | 1 201 | 2 910 | 29 200 | 8 492 | 34 566 | 3 126 | 1 625 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 254 | 15 | 2 516 | 14 411 | 1 989 | 4 608 | 10 548 | 25 144 | 24 963 | 45 474 | 4 633 | 7 314 | (NA) |

Note: For 1963 county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds value of shipments and capital expenditures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | Miscellaneous metal ores | | | | | | | | | | Oil and gas field services | | | | | | | | | | Clay and related minerals | | | | | | | | | |
|-----------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|---|-----|-----|------|-----|-------|-----|----------|-----|----------|--|----------|-----|----------|-----|-----|-----|----------|--|--|
| | | | 109 Anthracite | | | | | | | | | | 141 Dimension stone | | | | | | | | | | 145M Clay and related minerals in manufactures | | | | | | | | | |
| | | | 110 Anthracite mining services | | | | | | | | | | 141MDimension stone in manufactures | | | | | | | | | | 147 Chemical and fertilizer minerals | | | | | | | | | |
| | | | 120 Bituminous coal and lignite | | | | | | | | | | 142 Crushed and broken stone | | | | | | | | | | 148 Nonmetallic minerals services | | | | | | | | | |
| | | | 120 Coal mining services | | | | | | | | | | 142M Crushed and broken stone in manufactures | | | | | | | | | | 149 Miscellaneous minerals, n.e.c., in manufactures | | | | | | | | | |
| | | | 131 Crude petroleum and natural gas | | | | | | | | | | 144 Sand and gravel | | | | | | | | | | 149M Miscellaneous minerals, n.e.c., in manufactures | | | | | | | | | |
| | | | 132 Natural gas liquids | | | | | | | | | | 144M Sand and gravel in manufactures | | | | | | | | | | | | | | | | | | | |
| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Total | Classi- fied in mineral indus- tries ^a | In- clud- ed in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | | |
| TEXAS: TOTAL | 7 847 | 7 732 | 115 | 4 | – | 1 | 1 | – | 3 | 3 | 7 | – | – | 3 | – | 4941 | 305 | 2 117 | 11 | 6 | 44 | 20 | 223 | 29 | 29 | 55 | 15 | 7 | 18 | 5 | | |
| NO EMPLOYEES | 1 727 | 1 726 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 1501 | 6 | 191 | 1 | – | – | 1 | 19 | – | 4 | – | 1 | – | 2 | – | | |
| 1-4 EMPLOYEES | 3 250 | 3 183 | 67 | – | – | 1 | 1 | – | – | 1 | 5 | – | – | – | – | 2262 | 47 | 742 | 5 | 2 | 8 | 2 | 88 | 23 | 14 | 40 | – | 4 | 5 | – | | |
| 5-9 EMPLOYEES | 1 044 | 1 023 | 21 | – | – | – | – | – | – | 1 | 1 | – | – | – | – | 563 | 52 | 344 | 1 | 1 | 6 | 7 | 44 | 2 | 1 | 10 | 3 | 2 | 4 | 1 | | |
| 10-19 EMPLOYEES | 778 | 768 | 10 | 1 | – | – | – | – | – | 1 | 1 | – | – | 2 | – | 291 | 68 | 350 | 2 | – | 7 | 4 | 36 | 1 | 4 | 2 | 1 | 1 | 3 | 3 | | |
| 20-49 EMPLOYEES | 688 | 675 | 13 | 2 | – | – | – | – | – | – | 1 | – | – | – | – | 185 | 105 | 324 | 2 | 1 | 15 | 6 | 31 | 2 | 6 | 3 | 2 | – | 2 | 1 | | |
| 50-99 EMPLOYEES | 224 | 222 | 2 | – | – | – | – | – | – | – | – | – | – | 1 | – | 72 | 22 | 113 | – | 1 | 6 | – | 3 | 1 | – | – | 3 | – | – | – | | |
| 100-249 EMPLOYEES | 102 | 101 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 50 | 5 | 38 | – | 1 | 2 | – | 2 | – | – | – | 4 | – | – | – | | |
| 250-499 EMPLOYEES | 22 | 22 | – | 1 | – | – | – | – | – | – | – | – | – | – | – | 13 | – | 8 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 500-999 EMPLOYEES | 9 | 9 | – | – | – | – | – | – | – | – | – | – | – | – | – | 4 | – | 4 | – | – | – | – | – | – | – | – | 1 | – | – | – | | |
| 1000-2499 EMPLOYEES | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 2500 EMPLOYEES AND OVER | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| ANDERSON COUNTY: TOTAL | 126 | 126 | – | – | – | – | – | – | – | – | – | – | – | – | – | 86 | 1 | 38 | – | – | – | – | 1 | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 121 | 121 | – | – | – | – | – | – | – | – | – | – | – | – | – | 84 | 1 | 35 | – | – | – | – | 1 | – | – | – | – | – | – | – | | |
| 20-99 EMPLOYEES | 5 | 5 | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | 3 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| ANDREWS COUNTY: TOTAL | 310 | 310 | – | – | – | – | – | – | – | – | – | – | – | – | – | 170 | 8 | 132 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 282 | 282 | – | – | – | – | – | – | – | – | – | – | – | – | – | 161 | 3 | 118 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 20-99 EMPLOYEES | 26 | 26 | – | – | – | – | – | – | – | – | – | – | – | – | – | 7 | 5 | 14 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 100-249 EMPLOYEES | 2 | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | | |
| ANGELINA COUNTY: TOTAL | 6 | 6 | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 3 | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 6 | 6 | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 3 | – | 2 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| ARANSAS COUNTY: TOTAL | 64 | 64 | – | – | – | – | – | – | – | – | – | – | – | – | – | 35 | 2 | 27 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 63 | 63 | – | – | – | – | – | – | – | – | – | – | – | – | – | 35 | 2 | 26 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| ARCHER COUNTY: TOTAL | 286 | 286 | – | – | – | – | – | – | – | – | – | – | – | – | – | 210 | 1 | 75 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 283 | 283 | – | – | – | – | – | – | – | – | – | – | – | – | – | 209 | 1 | 74 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 20-99 EMPLOYEES | 3 | 3 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| ATASCOSA COUNTY: TOTAL | 89 | 89 | – | – | – | – | – | – | – | – | – | – | – | – | – | 47 | 4 | 38 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 82 | 82 | – | – | – | – | – | – | – | – | – | – | – | – | – | 45 | 2 | 35 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 20-99 EMPLOYEES | 6 | 6 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | 2 | 3 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 100-249 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | | |
| AUSTIN COUNTY: TOTAL | 26 | 26 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14 | 1 | 11 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 26 | 26 | – | – | – | – | – | – | – | – | – | – | – | – | – | 14 | 1 | 11 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| BAILEY COUNTY: TOTAL | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | | |
| BANDERA COUNTY: TOTAL | 4 | 3 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 2 | – | 1 | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 3 | 2 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | 1 | – | 1 | – | – | – | – | – | – | – | – | – | – | | |
| 20-99 EMPLOYEES | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| BASTROP COUNTY: TOTAL | 15 | 11 | 4 | – | – | – | – | – | – | – | – | – | – | – | – | 5 | – | 5 | – | – | – | – | 1 | – | 1 | 4 | – | – | – | – | | |
| 0-19 EMPLOYEES | 14 | 11 | 3 | – | – | – | – | – | – | – | – | – | – | – | – | 5 | – | 5 | – | – | – | – | 1 | – | 1 | 3 | – | – | – | – | | |
| 0-99 EMPLOYEES | 2 | 1 | 1 | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | 1 | – | – | – | – | – | | |
| BAYLOR COUNTY: TOTAL | 84 | 84 | – | – | – | – | – | – | – | – | – | – | – | – | – | 60 | – | 23 | – | – | – | – | 1 | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 84 | 84 | – | – | – | – | – | – | – | – | – | – | – | – | – | 60 | – | 23 | – | – | – | – | 1 | – | – | – | – | – | – | – | | |
| BEE COUNTY: TOTAL | 140 | 140 | – | – | – | – | – | – | – | – | – | – | – | – | – | 79 | 3 | 58 | – | – | – | – | – | – | – | – | – | – | – | – | | |
| 0-19 EMPLOYEES | 136 | 136 | – | – | – | – | – | – | – | – | – | – | – | – | – | 78 | 1 | 57 | – | – | – | – | – | | | | | | | | | |

Industry Groups, for Counties: 1963—Continued

See footnote at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)-- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|---------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- factures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| CORYELL COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| COTTE COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| CRANE COUNTY, TOTAL | 208 | 208 | - | - | - | - | - | - | - | - | - | - | - | - | - | 120 | 7 | 81 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 194 | 194 | - | - | - | - | - | - | - | - | - | - | - | - | - | 116 | 3 | 75 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 4 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CROCKETT COUNTY, TOTAL | 145 | 145 | - | - | - | - | - | - | - | - | - | - | - | - | - | 89 | 3 | 53 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 143 | 143 | - | - | - | - | - | - | - | - | - | - | - | - | - | 88 | 3 | 52 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| CROSBY COUNTY, TOTAL | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 5 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 5 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CULBERSON COUNTY, TOTAL | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 13 | - | - | - | - | - | - | - | - | 2 | - | - | - |
| 0-19 EMPLOYEES | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 11 | - | - | - | - | - | - | - | - | 2 | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| DALLAM COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| DALLAS COUNTY, TOTAL | 155 | 149 | 6 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | 73 | 1 | 29 | - | - | 4 | 2 | 36 | 2 | 1 | 2 | 1 | 1 | 1 | - |
| 0-19 EMPLOYEES | 137 | 132 | 5 | - | - | 1 | - | - | - | 1 | - | - | - | - | - | 68 | 1 | 22 | - | - | 3 | 1 | 33 | 2 | - | 2 | 1 | 1 | 1 | - |
| 20-99 EMPLOYEES | 16 | 15 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 5 | - | - | 1 | 1 | 3 | - | 1 | - | - | - | - | - |
| 100-249 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| DAWSON COUNTY, TOTAL | 112 | 112 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | 2 | 53 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 107 | 107 | - | - | - | - | - | - | - | - | - | - | - | - | - | 55 | 2 | 49 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| DELTA COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| DENTON COUNTY, TOTAL | 22 | 21 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 9 | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 21 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | 9 | - | - | - | - | 2 | - | - | 1 | - | - | - | - |
| DEWITT COUNTY, TOTAL | 103 | 103 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | - | 45 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 101 | 101 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | - | 43 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| DICKENS COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| DIMMIT COUNTY, TOTAL | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 15 | - | - | - | - | - | - | - | - | - | - | - | - |
| DONLEY COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| DUVAL COUNTY, TOTAL | 199 | 199 | - | - | - | - | - | - | - | - | - | - | - | - | - | 127 | 2 | 68 | - | - | - | 1 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 192 | 192 | - | - | - | - | - | - | - | - | - | - | - | - | - | 123 | 1 | 66 | - | - | - | 1 | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| EASTLAND COUNTY, TOTAL | 88 | 88 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | 5 | 23 | - | - | 1 | - | - | - | 3 | - | - | - | - | - |
| 0-19 EMPLOYEES | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | 53 | 2 | 23 | - | - | - | - | - | - | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - |
| ECTOR COUNTY, TOTAL | 378 | 376 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | 167 | 8 | 199 | - | - | 1 | 1 | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 321 | 319 | 2 | - | - | - | - | - | 1 | - | - | - | - | - | - | 159 | 3 | 156 | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 5 | 40 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| EDWARDS COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| ELLIS COUNTY, TOTAL | 23 | 18 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 4 | - | - | 1 | - | 2 | - | - | 4 | - | - | - | - |
| 0-19 EMPLOYEES | 23 | 18 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | 12 | -</ | | | | | | | | | | | | | |

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued**

[illegible]

See footnote at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| HARTLEY COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HASKELL COUNTY, TOTAL | 96 | 96 | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 | - | 26 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 95 | 95 | - | - | - | - | - | - | - | - | - | - | - | - | - | 69 | - | 26 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HAYS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| HEMPHILL COUNTY, TOTAL | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HENDERSON COUNTY, TOTAL | 76 | 72 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 35 | 3 | 29 | - | - | - | - | 2 | 1 | 2 | 3 | - | 1 | - | - |
| 0-19 EMPLOYEES | 70 | 67 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 33 | 1 | 28 | - | - | - | - | 2 | 1 | 2 | 2 | - | 1 | - | - |
| 20-99 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HIDALGO COUNTY, TOTAL | 126 | 124 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 64 | 5 | 50 | - | - | 1 | - | 2 | 1 | 1 | 1 | - | - | 1 | - |
| 0-19 EMPLOYEES | 115 | 113 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 61 | 4 | 43 | - | - | 1 | - | 2 | 1 | 1 | 1 | - | - | - | 1 |
| 20-99 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HILL COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| HOCKLEY COUNTY, TOTAL | 102 | 102 | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 | 3 | 41 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 96 | 96 | - | - | - | - | - | - | - | - | - | - | - | - | - | 55 | 1 | 40 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| HOOD COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HOPKINS COUNTY, TOTAL | 32 | 31 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | 1 | 14 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 32 | 31 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 16 | 1 | 14 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| HOUSTON COUNTY, TOTAL | 59 | 59 | - | - | - | - | - | - | - | - | - | - | - | - | - | 29 | 1 | 29 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 58 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | 29 | 1 | 28 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HOWARD COUNTY, TOTAL | 161 | 161 | - | - | - | - | - | - | - | - | - | - | - | - | - | 110 | 1 | 48 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 153 | 153 | - | - | - | - | - | - | - | - | - | - | - | - | - | 107 | - | 45 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 3 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| HUDSPETH COUNTY, TOTAL | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | 4 | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 1 | - | - | 1 | - | - | - | - | - | - | - | 4 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| HUNT COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| HUTCHINSON COUNTY, TOTAL | 193 | 193 | - | - | - | - | - | - | - | - | - | - | - | - | - | 133 | 9 | 50 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 176 | 176 | - | - | - | - | - | - | - | - | - | - | - | - | - | 127 | 4 | 44 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 4 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| IRION COUNTY, TOTAL | 42 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 2 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 42 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 2 | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| JACK COUNTY, TOTAL | 183 | 183 | - | - | - | - | - | - | - | - | - | - | - | - | - | 121 | 1 | 61 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 179 | 179 | - | - | - | - | - | - | - | - | - | - | - | - | - | 120 | 1 | 58 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| JACKSON COUNTY, TOTAL | 178 | 178 | - | - | - | - | - | - | - | - | - | - | - | - | - | 102 | 3 | 73 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 170 | 170 | - | - | - | - | - | - | - | - | - | - | - | - | - | 98 | 1 | 71 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| JASPER COUNTY, TOTAL | 32 | 31 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 17 | - | - | - | - | - | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 31 | 30 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 14 | - | 16 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | | | |

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued**

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------|----------------------------------|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| KARNES COUNTY, TOTAL | 105 | 105 | - | - | - | - | - | - | - | - | 6 | - | - | - | - | 51 | 3 | 45 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 101 | 101 | - | - | - | - | - | - | - | - | 5 | - | - | - | - | 51 | 2 | 43 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| KAUFMAN COUNTY, TOTAL | 17 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 9 | - | - | 1 | - | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | 9 | - | - | 1 | - | 2 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | |
| KENDALL COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 1 | - | - | - | - | - | - | - | |
| KENEDY COUNTY, TOTAL | 35 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 1 | 24 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 35 | 35 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 1 | 24 | - | - | - | - | - | - | - | - | - | - | - | |
| KENT COUNTY, TOTAL | 45 | 45 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 23 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 43 | 43 | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 | - | 22 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| KERR COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| KIMBLE COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | |
| KING COUNTY, TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | |
| KINNEY COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| KLEBERG COUNTY, TOTAL | 85 | 85 | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | 3 | 58 | - | - | 1 | - | - | - | - | - | 1 | - | - | |
| 0-19 EMPLOYEES | 80 | 80 | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 | 2 | 55 | - | - | 1 | - | - | - | - | - | 1 | - | - | |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| KNOX COUNTY, TOTAL | 82 | 82 | - | - | - | - | - | - | - | - | - | - | - | - | - | 62 | - | 20 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 82 | 82 | - | - | - | - | - | - | - | - | - | - | - | - | - | 62 | - | 20 | - | - | - | - | - | - | - | - | - | - | - | |
| LAMAR COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | |
| LAMB COUNTY, TOTAL | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 4 | - | - | 1 | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | - | 4 | - | - | 1 | - | - | - | - | - | - | - | - | |
| LAMPASAS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| LA SALLE COUNTY, TOTAL | 33 | 33 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 18 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 33 | 33 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 18 | - | - | - | - | - | - | - | - | - | - | - | |
| LAVACA COUNTY, TOTAL | 70 | 70 | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 3 | 31 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 68 | 68 | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 1 | 31 | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | |
| LEE COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| LEON COUNTY, TOTAL | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | 1 | 22 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 54 | 54 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | 1 | 21 | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| LIBERTY COUNTY, TOTAL | 158 | 158 | - | - | - | - | - | - | - | - | - | - | - | - | - | 78 | - | 77 | - | - | - | 2 | - | - | - | - | 1 | - | - | |
| 0-19 EMPLOYEES | 138 | 138 | - | - | - | - | - | - | - | - | - | - | - | - | - | 72 | - | 65 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 12 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | |
| LIMESTONE COUNTY, TOTAL | 42 | 40 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 26 | 1 | 13 | - | - | - | - | - | - | - | 2 | - | - | - | |
| 0-19 EMPLOYEES | 40 | 38 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 25 | 1 | 12 | - | - | - | - | - | - | - | 2 | - | - | - | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| LIPSCOMB COUNTY, TOTAL | 55 | 55 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 23 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 54 | 54 | - | - | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 22 | - | - | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| LIVE OAK COUNTY, TOTAL | 128 | 128 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 72 | 1 | 53 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 126 | 126 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 72 | - | 52 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| LLANO COUNTY, TOTAL | 8 | 7 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | 1 | 1 | - | - | - | - | - | 1 | - | - | |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 1 | - | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| LOVING COUNTY, TOTAL | 79 | 79 | - | - | - | - | - | - | - | - | - | - | - | - | - | 50 | - | 29 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 79 | 79 | - | - | - | - | - | - | - | - | - | - | - | - | - | 50 | - | 29 | - | - | - | - | - | - | - | - | - | - | - | |
| LUBBOCK COUNTY, TOTAL | 58 | 58 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 26 | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 56 | 56 | - | - | - | - | - | - | - | - | - | - | - | - | - | 29 | - | 26 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| LYNN COUNTY, TOTAL | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | - | 9 | - | - | - | - | - | - | - | - | - | - | - | |
| MCCULLOCH COUNTY, TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | - | - | 1 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | | | |

See footnote at end of table.

Industry Groups, for Counties: 1963—Continued

See footnote at end of table.

Industry Groups, for Counties: 1963—Continued

See footnote at end of table.

TABLE 4. **Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963**—Continued

[illegible]

See footnote at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| VAL VERDE COUNTY, TOTAL | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| VAN ZANDT COUNTY, TOTAL | 49 | 49 | - | - | - | - | - | - | - | - | - | - | - | - | - | 23 | 2 | 24 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 46 | 46 | - | - | - | - | - | - | - | - | - | - | - | - | - | 22 | 1 | 23 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| VICTORIA COUNTY, TOTAL | 163 | 162 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 84 | 1 | 74 | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 154 | 153 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 81 | 1 | 70 | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 4 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| WALKER COUNTY, TOTAL | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 7 | - | - | - | - | - | - | 1 | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 11 | 11 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 7 | - | - | - | - | - | - | 1 | - | - | 1 | - | - |
| WALLER COUNTY, TOTAL | 15 | 15 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 9 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 14 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 9 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WARD COUNTY, TOTAL | 188 | 188 | - | - | - | - | - | - | - | - | - | - | - | - | - | 92 | 3 | 91 | - | - | - | - | 1 | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 165 | 165 | - | - | - | - | - | - | - | - | - | - | - | - | - | 85 | 2 | 77 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 1 | 14 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WEBB COUNTY, TOTAL | 98 | 97 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 59 | 1 | 34 | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 96 | 95 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 58 | 1 | 33 | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WHARTON COUNTY, TOTAL | 138 | 138 | - | - | - | - | - | - | - | - | - | - | - | - | - | 81 | 1 | 55 | - | - | - | - | - | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 128 | 128 | - | - | - | - | - | - | - | - | - | - | - | - | - | 79 | 1 | 48 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - |
| WHEELER COUNTY, TOTAL | 91 | 91 | - | - | - | - | - | - | - | - | - | - | - | - | - | 62 | 1 | 28 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 89 | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 61 | - | 28 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WICHITA COUNTY, TOTAL | 427 | 426 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 312 | 4 | 108 | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 408 | 407 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 301 | 3 | 101 | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 18 | 18 | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 1 | 7 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WILBARGER COUNTY, TOTAL | 115 | 115 | - | - | - | - | - | - | - | - | - | - | - | - | - | 80 | 1 | 34 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 112 | 112 | - | - | - | - | - | - | - | - | - | - | - | - | - | 78 | 1 | 33 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WILLACY COUNTY, TOTAL | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - |
| WILLIAMSON COUNTY, TOTAL | 10 | 6 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | 1 | 2 | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | 1 | 2 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| WILSON COUNTY, TOTAL | 51 | 49 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 31 | - | 18 | - | - | - | - | - | - | - | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 51 | 49 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 31 | - | 18 | - | - | - | - | - | - | - | 2 | - | - | - | - |
| WINKLER COUNTY, TOTAL | 173 | 173 | - | - | - | - | - | - | - | - | - | - | - | - | - | 96 | 8 | 69 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 153 | 153 | - | - | - | - | - | - | - | - | - | - | - | - | - | 89 | 5 | 59 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 19 | 19 | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 3 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WISE COUNTY, TOTAL | 148 | 147 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 89 | 2 | 51 | - | - | 4 | - | 1 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 135 | 134 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 88 | - | 45 | - | - | - | - | 1 | - | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 13 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 6 | - | - | 4 | - | - | - | - | | | | | |

EMPLOYMENT IN MINING BY COUNTY: 1963

UTAH

RANK AMONG STATES

EMPLOYMENT - 17

VALUE OF SHIPMENT - 13

EMPLOYMENT

8000 - 12000

4000 - 7999

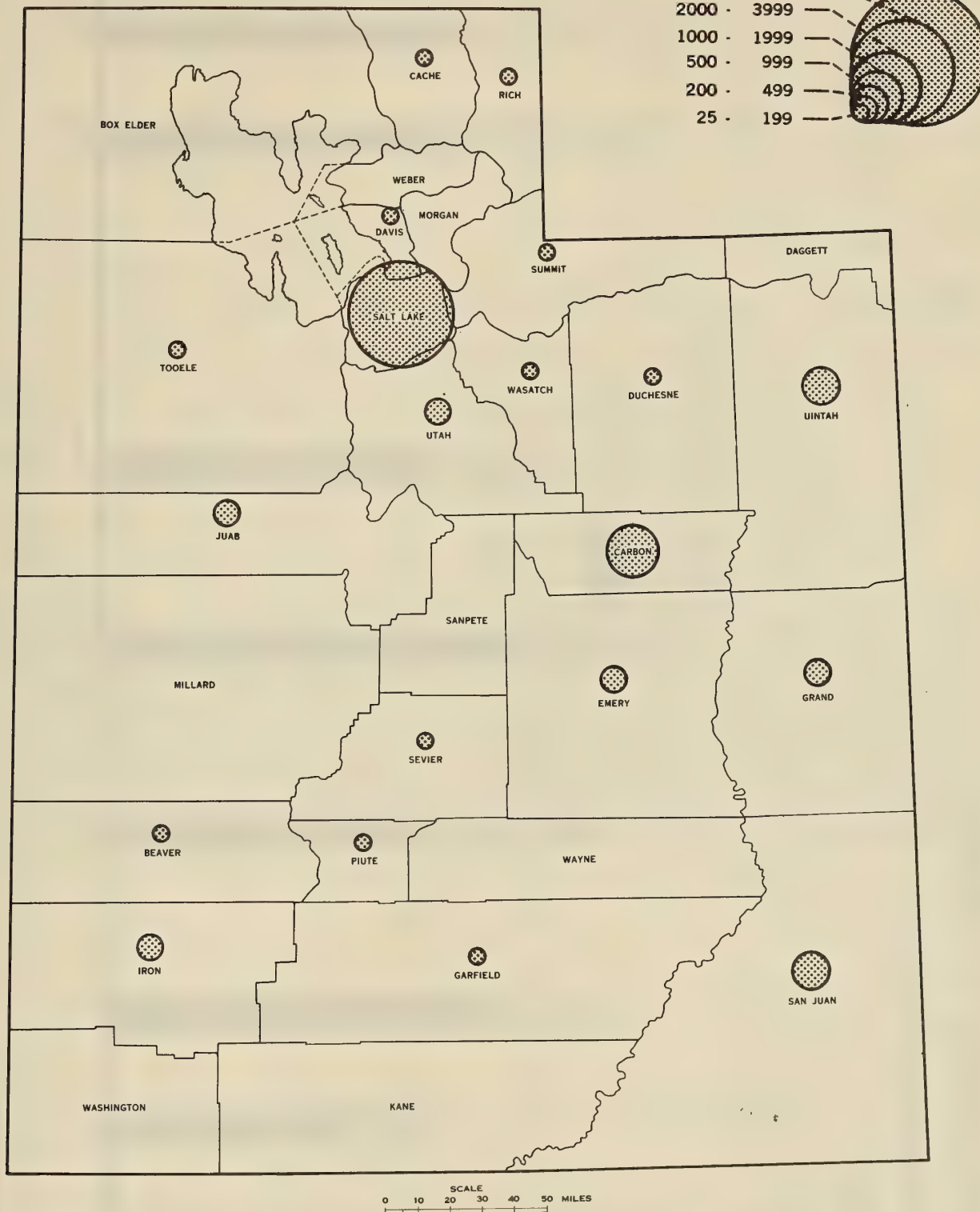
2000 - 3999

1000 - 1999

500 - 999

200 - 499

25 - 199



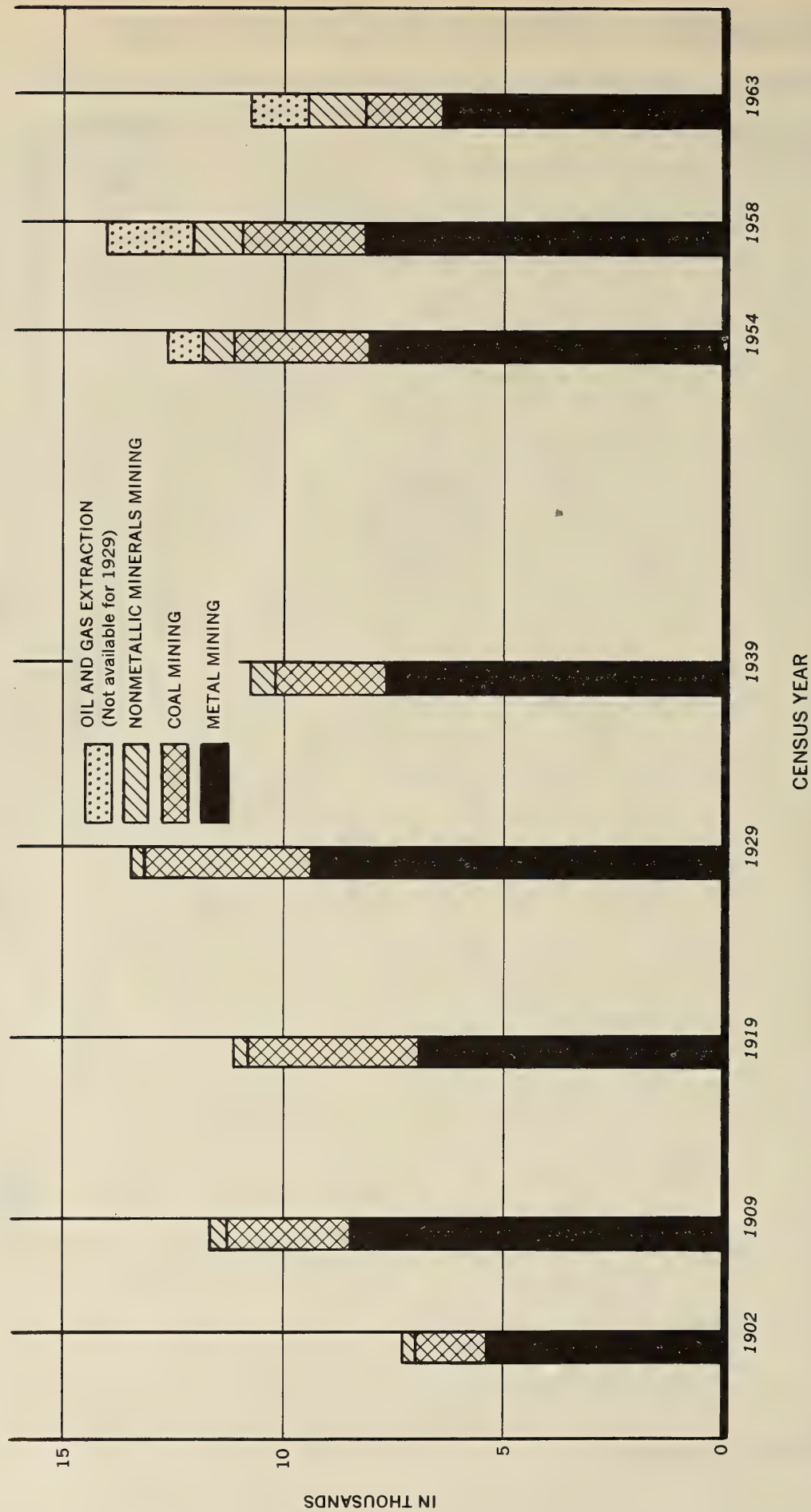
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

UTAH



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) |
|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | |
| 1963 | 384 | 71 | 10 695 | 68 758 | 9 104 | 17 320 | 55 638 | 267 832 |
| 1958 | 450 | 79 | 14 014 | 79 907 | 11 598 | 22 851 | 62 855 | 246 198 |
| 1954 | 555 | 59 | 12 636 | 56 620 | 10 249 | 19 806 | 43 260 | ¹ 151 662 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | |
| 1963 | 405 | 72 | 10 832 | 69 538 | 9 238 | 17 589 | 56 400 | 270 662 |
| 1958 | 468 | 79 | 14 100 | 80 290 | 11 684 | 23 013 | 63 238 | 250 132 |
| 1954 ² | 562 | 59 | 12 685 | 56 807 | 10 298 | 19 903 | 43 447 | ¹ 153 235 |
| 1939 | ³ 199 | (NA) | 10 832 | 16 614 | 9 529 | 18 466 | 13 274 | 51 550 |
| 1929 ⁴ | 186 | (NA) | 13 565 | 24 645 | 12 607 | (NA) | 21 900 | 62 829 |
| 1919 ⁵ | 189 | (NA) | 11 170 | 19 758 | 10 241 | (NA) | 17 768 | 29 898 |
| 1909 ⁶ | 504 | (NA) | 11 712 | 11 160 | ¹⁰ 954 | (NA) | 9 849 | 16 067 |
| 1902 ⁶ | ³ 451 | (NA) | 7 305 | 6 760 | ⁶ 678 | (NA) | 6 010 | 9 873 |

| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh, equivalent) | | Horsepower rating of power equipment (1,000 hp) |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|----------------------------------|--|
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 52 496 | 100 836 | 35 119 | 20 813 | 423 811 | 53 285 | 3 798 | 417 | 746 |
| 1958 | 75 466 | 101 876 | 47 246 | 22 368 | ¹ 428 030 | 65 124 | 4 722 | 407 | (NA) |
| 1954 | 39 581 | 75 609 | 16 565 | 10 090 | ¹ 273 486 | 19 438 | 3 851 | 376 | 498 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | ⁹ 53 002 | 100 836 | ⁹ 35 119 | ¹⁰ 20 813 | 427 147 | ¹⁰ 53 285 | ¹⁰ 3 798 | 417 | ¹⁰ 746 |
| 1958 | ⁹ 75 790 | 101 876 | ⁹ 47 246 | ¹⁰ 22 368 | ¹⁰ 432 288 | ¹⁰ 65 124 | ¹⁰ 4 722 | 404 | (NA) |
| 1954 ² | ⁹ 39 679 | 75 609 | ⁹ 16 565 | ¹⁰ 10 090 | ¹ 275 157 | ¹⁰ 19 438 | ¹⁰ 3 851 | 374 | ¹⁰ 498 |
| 1939 | 11 225 | (NA) | 262 | (NA) | 63 037 | (NA) | 1 346 | 141 | 275 |
| 1929 ⁴ | 18 129 | (NA) | 2 140 | 4 154 | 83 098 | (NA) | ¹¹ 1 266 | 100 | 184 |
| 1919 ⁵ | 10 697 | 298 | 618 | (NA) | 41 511 | (NA) | ¹¹ 630 | 159 | 90 |
| 1909 ⁶ | 5 529 | 107 | 380 | (NA) | 22 083 | (NA) | (NA) | (NA) | 51 |
| 1902 ⁶ | 2 305 | (NA) | 200 | (NA) | 12 378 | (NA) | (NA) | (NA) | 16 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for oil and gas extraction and common clay and shale operations, if any. In 1939, there were 4 oil and gas extraction operations, and 4 common clay and shale mines with products valued at \$35 thousand.

⁵Excludes data for sand and gravel and common clay and shale mining operations and for limestone quarries operated as parts of cement and lime plants. For 1929, 3 such sand and gravel operations were reported with products valued at \$255 thousand, and 3 such limestone quarries.

⁶Includes data for one cement plant and for lime plants producing lime valued at \$99 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

⁹For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes data for mining operations in manufacturing establishments.

¹¹Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 37 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|---------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 405 | 72 | 10 832 | 69 538 | 9 238 | 17 589 | 56 400 |
| | MINERAL INDUSTRIES. | 384 | 71 | 10 695 | 68 758 | 9 104 | 17 320 | 55 638 |
| | INCLUDED IN MANUFACTURES. | 21 | 1 | ¹ 137 | ¹ 780 | ¹ 134 | 269 | 762 |
| 10 | METAL MINING. | 150 | 22 | 6 464 | ² 50 164 | 5 503 | ² 12 503 | ² 40 487 |
| 1011 | IRON ORES. | 6 | 3 | 283 | 1 970 | 225 | 404 | 1 515 |
| 1031 | LEAD AND ZINC ORES. | 22 | 6 | 1 094 | 6 448 | 908 | 1 883 | 5 056 |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES. | 89 | 9 | 865 | 5 336 | 638 | 1 298 | 3 740 |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 36 | 16 | 1 726 | 9 941 | 1 556 | 2 502 | 8 880 |
| 13 | OIL AND GAS EXTRACTION. | 114 | 19 | 1 344 | 8 653 | 1 031 | 2 315 | 6 271 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 68 | 8 | 533 | 3 959 | 298 | 594 | 2 063 |
| | CRUDE PETROLEUM. | 49 | 6 | 435 | 3 330 | 232 | 458 | 1 671 |
| | NATURAL GAS. | 19 | 2 | 98 | 629 | 66 | 136 | 392 |
| 1389 | OIL AND GAS FIELD SERVICES: OIL AND GAS FIELD SERVICES, N.E.C.. . . . | 23 | 4 | 298 | 1 670 | 281 | 646 | 1 577 |
| 14 | NONMETALLIC MINERALS MINING: MINERAL INDUSTRIES. | 84 | 14 | 1 161 | (²) | 1 014 | (²) | (²) |
| | INCLUDED IN MANUFACTURES. | 21 | 1 | ¹ 137 | ¹ 780 | ¹ 134 | 269 | 762 |
| 1421 | CRUSHED AND BROKEN STONE. | 14 | 3 | 191 | 986 | 147 | 290 | 900 |
| | MINERAL INDUSTRY. | 10 | 2 | 122 | 555 | 78 | 151 | 469 |
| | INCLUDED IN MANUFACTURES. | 4 | 1 | ¹ 69 | ¹ 431 | ¹ 69 | 139 | 431 |
| | CRUSHED AND BROKEN LIMESTONE. | 9 | 3 | 173 | 937 | 132 | 265 | 854 |
| | MINERAL SUBINDUSTRY. | 5 | 2 | 104 | 506 | 63 | 126 | 423 |
| | INCLUDED IN MANUFACTURES. | 4 | 1 | ¹ 69 | ¹ 431 | ¹ 69 | 139 | 431 |
| 144 | SAND AND GRAVEL. | 50 | 4 | 360 | 1 653 | 330 | 602 | 1 493 |
| | MINERAL INDUSTRY. | 39 | 4 | 333 | 1 513 | 303 | 547 | 1 353 |
| | INCLUDED IN MANUFACTURES. | 11 | - | ¹ 27 | ¹ 140 | ¹ 27 | 55 | 140 |
| | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 12 | 1 | 150 | 887 | 143 | 271 | 849 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 270 662 | ³ 209 782 | ¹ 427 147 | (NA) | 14 100 | 250 132 | |
| | MINERAL INDUSTRIES. | 267 832 | 209 264 | 423 811 | 53 285 | 14 014 | 246 198 | |
| | INCLUDED IN MANUFACTURES. | 2 830 | ³ 518 | ¹ 3 336 | (NA) | ¹ 86 | 3 934 | |
| 10 | METAL MINING. | ² 144 389 | ² 136 731 | ² 259 051 | ² 22 069 | ² 9 203 | ² 147 778 | |
| 1011 | IRON ORES. | 11 116 | 2 655 | 13 508 | 263 | 465 | 22 185 | |
| 1031 | LEAD AND ZINC ORES. | 11 962 | 14 426 | 22 859 | 3 529 | 1 145 | 9 557 | |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES. | 40 422 | 40 683 | 79 758 | 1 347 | 1 791 | 49 545 | |
| 1211 | BITUMINOUS COAL MINING (BITUMINOUS COAL). | 23 337 | 17 654 | 39 213 | 1 778 | 2 830 | 25 417 | |
| 13 | OIL AND GAS EXTRACTION. | 100 106 | 54 879 | 125 547 | 29 438 | 1 981 | 73 003 | |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS.. . . . | 89 295 | 40 228 | 101 568 | 27 955 | 848 | 60 521 | |
| | CRUDE PETROLEUM.. . . . | 84 147 | 35 132 | 95 298 | 23 981 | (NA) | (NA) | |
| | NATURAL GAS. | 5 148 | 5 096 | 6 270 | 3 974 | (NA) | (NA) | |
| 1389 | OIL AND GAS FIELD SERVICES: OIL AND GAS FIELD SERVICES, N.E.C.. . . . | 2 977 | 1 434 | 3 978 | 433 | 207 | 1 555 | |
| 14 | NONMETALLIC MINERALS MINING: MINERAL INDUSTRIES. | (²) | (²) | (²) | (²) | (²) | (²) | |
| | INCLUDED IN MANUFACTURES. | 2 830 | 518 | ¹ 3 336 | (NA) | ¹ 86 | 3 934 | |
| 1421 | CRUSHED AND BROKEN STONE. | 3 090 | ³ 759 | ¹ 3 608 | (NA) | 323 | 6 622 | |
| | MINERAL INDUSTRY. | 2 093 | 477 | 12 329 | 241 | 285 | (NA) | |
| | INCLUDED IN MANUFACTURES. | 997 | ³ 282 | ¹ 1 279 | (NA) | ³ 8 | (NA) | |
| | CRUSHED AND BROKEN LIMESTONE. | 2 975 | ³ 715 | ¹ 3 454 | (NA) | (NA) | (NA) | |
| | MINERAL SUBINDUSTRY. | 1 978 | 433 | 2 175 | 236 | 97 | 1 298 | |
| | INCLUDED IN MANUFACTURES. | 997 | ³ 282 | ¹ 1 279 | (NA) | (NA) | (NA) | |
| 144 | SAND AND GRAVEL. | 4 482 | ³ 1 890 | ¹ 5 894 | (NA) | 406 | 13 325 | |
| | MINERAL INDUSTRY. | 3 758 | 1 790 | 5 070 | 478 | 379 | 12 030 | |
| | INCLUDED IN MANUFACTURES. | 724 | ³ 100 | ¹ 824 | (NA) | ² 7 | 1 285 | |
| | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 1 115 | 555 | 1 538 | 132 | (NA) | (NA) | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.

Footnotes continued on next page.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958—Continued

Footnotes for table 2A—Utah—Continued

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Figures for Nonmetallic Minerals Mining are included with those for Metal Mining.

³For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|--------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 209 264 | 52 496 | 100 836 | 35 119 | 20 813 | 53 285 | 23 227 | 30 058 | (x) | (x) | (x) | (x) |
| | METAL MINING: | | | | | | | | | | | | |
| 1011 | IRON ORES | 2 655 | 1 591 | — | 1 057 | 7 | 263 | 65 | 198 | ³ 1 809 | 12 545 | — | — |
| 1031 | LEAD AND ZINC ORES. | 14 426 | 12 413 | (⁴) | 832 | 1 181 | 3 529 | 2 259 | 1 270 | ⁵ 645 | 16 568 | — | — |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES | 40 683 | 438 437 | (⁴) | 1 520 | 726 | 1 347 | 507 | 840 | ⁶ 672 | (0) | — | — |
| 12 | BITUMINOUS COAL MINING. | 17 654 | 16 050 | (⁴) | 222 | 1 382 | 1 778 | 241 | 1 537 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 17 654 | 16 050 | (⁴) | 222 | 1 382 | 1 778 | 241 | 1 537 | 4 379 | 30 473 | — | — |
| 13 | OIL AND GAS EXTRACTION. | 54 879 | 25 666 | (⁴) | 19 847 | 9 366 | 29 438 | 14 239 | 15 199 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS. | 40 228 | 15 142 | — | 17 622 | 7 464 | 27 955 | 14 239 | 13 716 | (x) | 99 417 | (x) | 47 |
| | CRUDE PETROLEUM | 35 132 | 13 611 | — | 15 231 | 6 290 | 23 981 | 11 976 | 12 005 | ⁶ 32 900 | 88 000 | ⁷ 262 | 653 |
| | NATURAL GAS | 5 096 | 1 531 | — | 2 391 | 1 174 | 3 974 | 2 263 | 1 711 | ⁷ 38 897 | 5 588 | ⁷ 31 701 | 5 223 |
| | NONMETALLIC MINERALS MINING: | | | | | | | | | | | | |
| 144 | SAND AND GRAVEL | 1 790 | 1 281 | (⁴) | 116 | 393 | 478 | 3 | 475 | 5 236 | ⁸ 5 544 | ⁹ 664 | (⁸) |

Note: See appendix A for an explanation of terms used.

Standard Notes: — Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Quantity represents thousands of long tons.

⁴Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁵Represents crude ore mines, hence, is not entirely comparable with figure shown in the succeeding column.

⁶Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.

⁷Represents millions of cubic feet of natural gas shipped.

⁸Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 9.

⁹Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 332 | 274 | 168 | 99 | 21 | 48 | 96 | 31 | 63 | 2 | 10 | 58 |
| | NUMBER OF EMPLOYEES..... | 9 349 | 9 121 | 4 373 | 1 246 | 2 593 | 534 | (D) | (D) | 700 | (D) | (D) | 228 |
| | VALUE ADDED IN MINING....\$1,000.. | 251 702 | 251 826 | 165 599 | 34 796 | 45 731 | 85 072 | (D) | (D) | 10 157 | (D) | (D) | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 143 | 112 | 101 | 89 | 11 | 1 | 5 | 3 | 2 | - | 6 | 31 |
| | NUMBER OF EMPLOYEES..... | (D) | 5 993 | 3 663 | 1 100 | (D) | (D) | (D) | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | (D) | 129 141 | 79 016 | 33 441 | (D) | (D) | (D) | (D) | (D) | - | (D) | (D) |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 6 | 5 | 4 | - | 4 | - | 1 | - | 1 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | 273 | (D) | (D) | - | (D) | - | (D) | - | (D) | - | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 11 116 | (D) | (D) | - | (D) | - | (D) | - | (D) | - | - | (D) |
| 103 | LEAD AND ZINC ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 22 | 18 | 14 | 12 | 2 | - | 2 | 2 | - | - | 2 | 4 |
| | NUMBER OF EMPLOYEES..... | 1 042 | 1 021 | 657 | (D) | (D) | - | (D) | (D) | - | - | (D) | 21 |
| | VALUE ADDED IN MINING....\$1,000.. | 11 962 | 11 975 | 5 607 | (D) | (D) | - | (D) | (D) | - | - | (D) | (²) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 36 | 34 | 8 | 8 | - | - | 25 | 25 | - | - | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 685 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 23 337 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 36 | 34 | 8 | 8 | - | - | 25 | 25 | - | - | 1 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 685 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 23 337 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 71 | 49 | 46 | - | - | 46 | - | - | - | - | 3 | 22 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | (D) | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 68 | 46 | 46 | - | - | 46 | - | - | - | - | - | 22 |
| | NUMBER OF EMPLOYEES..... | 533 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 89 295 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 82 | 79 | 13 | 2 | 10 | 1 | 66 | 3 | 61 | 2 | - | 3 |
| | NUMBER OF EMPLOYEES..... | (D) | 1 017 | 231 | (D) | (D) | (D) | 786 | 187 | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | (D) | 13 451 | 1 949 | (D) | (D) | (D) | 11 502 | 3 543 | (D) | (D) | - | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 39 | 39 | - | - | - | - | 39 | - | 38 | 1 | - | - |
| | NUMBER OF EMPLOYEES..... | 333 | 333 | - | - | - | - | 333 | - | (D) | (D) | - | - |
| | VALUE ADDED IN MINING....\$1,000.. | 3 758 | 3 758 | - | - | - | - | 3 758 | - | (D) | (D) | - | - |
| 149 | MISC. NONMETALLIC MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 10 | 10 | 2 | 1 | 1 | - | 8 | 3 | 5 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 206 | 206 | (D) | (D) | (D) | - | (D) | 187 | (D) | - | - | - |
| | VALUE ADDED IN MINING....\$1,000.. | 3 722 | 3 722 | (D) | (D) | (D) | - | (D) | 3 543 | (D) | - | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 405 | 72 | 10 832 | 69 538 | 9 238 | 17 589 | 56 400 | 270 662 | 209 782 | 427 147 | (NA) | 14 100 | 250 132 |
| | MINERAL INDUSTRIES | 384 | 71 | 10 695 | 68 758 | 9 104 | 17 320 | 55 638 | 267 832 | 209 264 | 423 811 | 53 285 | 14 014 | 246 198 |
| | INCLUDED IN MANUFACTURES ² | 21 | 1 | 137 | 780 | 134 | 269 | 762 | 2 830 | 518 | 3 336 | (NA) | 86 | 3 934 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | CARBON COUNTY, TOTAL | 33 | 13 | 1 328 | 7 718 | 1 221 | 1 954 | 6 983 | 20 160 | 16 813 | 35 447 | 1 526 | 2 216 | (NA) |
| 12 | BITUMINOUS COAL MINING | 18 | 13 | 1 304 | 7 561 | 1 202 | 1 910 | 6 865 | 18 811 | 16 377 | 33 851 | 1 337 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 7 | - | 6 | 42 | 4 | 8 | 26 | 1 167 | 286 | 1 336 | 117 | (NA) | (NA) |
| | DUCHESNE COUNTY, TOTAL | 17 | 2 | 91 | 620 | 85 | 199 | 567 | 983 | 989 | 1 404 | 568 | 722 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 9 | 1 | 60 | 419 | 55 | 139 | 377 | 684 | 555 | 1 157 | 82 | (NA) | (NA) |
| | EMERY COUNTY, TOTAL | 38 | 4 | 410 | 2 374 | 376 | 681 | 2 207 | 5 380 | 1 869 | 6 509 | 740 | (NA) | (NA) |
| 10 | METAL MINING | 11 | 1 | 59 | 375 | 53 | 112 | 333 | 1 058 | 193 | 1 177 | 74 | (NA) | (NA) |
| 12 | BITUMINOUS COAL MINING | 10 | 2 | 296 | 1 681 | 277 | 451 | 1 610 | 3 719 | 1 107 | 4 641 | 185 | (NA) | (NA) |
| 1211 | BITUMINOUS COAL. | 10 | 2 | 296 | 1 681 | 277 | 451 | 1 610 | 3 719 | 1 107 | 4 641 | 185 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 17 | 1 | 55 | 318 | 46 | 118 | 264 | 603 | 569 | 691 | 481 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 11 | 1 | 36 | 173 | 34 | 89 | 161 | 442 | 208 | 616 | 34 | (NA) | (NA) |
| | GRAND COUNTY, TOTAL | 66 | 5 | 434 | 2 743 | 354 | 690 | 2 159 | 9 951 | 39 138 | 38 112 | 10 977 | 477 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 23 | 2 | 116 | 556 | 103 | 178 | 451 | 1 548 | 921 | 2 183 | 286 | 60 | (NA) |
| | IRON COUNTY, TOTAL | 14 | 3 | 297 | 2 015 | 247 | 442 | 1 622 | 11 444 | 2 738 | 13 878 | 304 | 561 | 23 695 |
| 10 | METAL MINING | 8 | 3 | 273 | 1 898 | 225 | 404 | 1 515 | 11 119 | 2 682 | 13 513 | 288 | 534 | 23 531 |
| | JUAB COUNTY, TOTAL | 19 | 4 | 255 | 1 584 | 230 | 435 | 1 441 | 1 898 | 707 | 2 025 | 580 | 78 | 1 296 |
| 10 | METAL MINING | 11 | 3 | 122 | 792 | 104 | 193 | 694 | 719 | 474 | 654 | 539 | (NA) | (NA) |
| | SALT LAKE COUNTY, TOTAL. | 49 | 11 | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING. | 14 | 1 | 97 | 454 | 81 | 164 | 378 | 1 098 | 583 | 1 539 | 142 | 138 | 1 167 |
| 144 | SAND AND GRAVEL. | 11 | 1 | 78 | 392 | 65 | 134 | 323 | 946 | 486 | 1 307 | 125 | (NA) | (NA) |
| | SAN JUAN COUNTY, TOTAL | 126 | 15 | 957 | 6 010 | 838 | 1 798 | 5 155 | 106 491 | 36 311 | 130 620 | 12 182 | 2 137 | (NA) |
| 109 | MISCELLANEOUS METAL ORES | 46 | 6 | 446 | 2 746 | 390 | 798 | 2 361 | 32 636 | 9 501 | 41 459 | 678 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 73 | 8 | 399 | 2 513 | 342 | 778 | 2 068 | 71 973 | 25 595 | 86 581 | 10 987 | 1 057 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 35 | 4 | 124 | 869 | 98 | 197 | 664 | 66 989 | 16 814 | 73 418 | 10 385 | 299 | (NA) |
| | SEVIER COUNTY, TOTAL | 12 | - | 52 | 267 | 47 | 75 | 240 | 640 | 373 | 776 | 237 | 50 | (NA) |
| | UINTAH COUNTY, TOTAL | 61 | 9 | 678 | 4 326 | 560 | 1 234 | 3 432 | 26 932 | 23 522 | 39 103 | 11 351 | 488 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 53 | 6 | 406 | 2 721 | 335 | 764 | 2 144 | 22 106 | 20 680 | 32 225 | 10 561 | 221 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 23 | 1 | 112 | 814 | 65 | 123 | 437 | 17 948 | 15 824 | 24 056 | 9 716 | 91 | (NA) |
| | UTAH COUNTY, TOTAL | 30 | 3 | 219 | 1 063 | 203 | 352 | 918 | 2 808 | 1 094 | 3 521 | 381 | 162 | 1 411 |
| 14 | NONMETALLIC MINERALS MINING. | 19 | 2 | 160 | 712 | 150 | 241 | 633 | 2 386 | 605 | 2 706 | 285 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 35 | 1 | 110 | 622 | 92 | 210 | 508 | 1 354 | 959 | 2 140 | 173 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 32 | 1 | 104 | 598 | 86 | 197 | 484 | 1 238 | 943 | 2 028 | 153 | 271 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A, footnotes 1 and 3.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SANPETE COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - |
| SEVIER COUNTY: TOTAL | 14 | 12 | 2 | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 2 | - | 2 | - | - | - | - | 2 | - | 1 | - | 2 | - | - | 2 |
| 0-19 EMPLOYEES | 14 | 12 | 2 | - | - | - | - | - | - | - | 1 | - | - | 2 | - | 2 | - | 2 | - | - | - | - | 2 | - | 1 | - | 2 | - | - | 2 |
| SUMMIT COUNTY: TOTAL | 7 | 6 | 1 | - | - | - | 1 | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | 1 | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - |
| TOWEE COUNTY: TOTAL | 14 | 11 | 3 | - | 1 | 3 | 1 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | - | 1 | - | 1 | - | - | 1 |
| 0-19 EMPLOYEES | 13 | 10 | 3 | - | 1 | 3 | 1 | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | - | 1 | - | - | - | - | 1 |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | - | 1 | - | - |
| UINTAH COUNTY: TOTAL | 61 | 61 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 23 | 1 | 29 | - | - | - | - | 1 | - | - | - | 1 | 1 | 4 | - |
| 0-19 EMPLOYEES | 52 | 52 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 22 | 1 | 24 | - | - | - | - | 1 | - | - | - | - | - | 3 | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - | - | 1 | 1 | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 |
| UTAH COUNTY: TOTAL | 30 | 30 | - | - | 1 | 1 | - | - | - | 4 | 2 | - | - | - | - | 2 | - | 1 | - | - | 2 | - | 11 | - | 4 | - | - | 1 | 1 | - |
| 0-19 EMPLOYEES | 27 | 27 | - | - | 1 | 1 | - | - | - | 3 | 2 | - | - | - | - | 2 | - | 1 | - | - | 1 | - | 10 | - | 4 | - | - | 1 | 1 | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| WASATCH COUNTY: TOTAL | 6 | 6 | - | - | - | 1 | - | - | - | 1 | - | - | - | - | - | 1 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 1 | - | - | 1 | - | 2 | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WASHINGTON COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WAYNE COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| WEBER COUNTY: TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 1 | - | - | - | - | - | - |
| UNDISTRIBUTED: TOTAL | 35 | 35 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - | 32 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 34 | 34 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | 2 | - | 31 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
 n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

VERMONT

RANK AMONG STATES

EMPLOYMENT — 44

VALUE OF SHIPMENT — 45



U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

VERMONT



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining | |
|--|---|---------------------------------------|-------------------|-------------------------------|--|----------------------|-------------------------------|-----------------------|--------------------------------------|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 44 | 10 | 846 | 4 137 | 740 | 1 583 | 3 435 | 8 780 | |
| 1958 | 41 | 7 | 790 | 3 205 | 674 | 1 350 | 2 528 | 6 823 | |
| 1954 | 42 | 11 | 1 329 | 4 943 | 1 187 | 2 633 | 4 153 | 10 600 | |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963 | 61 | 14 | 2 064 | 9 449 | 1 857 | 4 024 | 8 198 | 16 355 | |
| 1958 | 67 | 16 | 2 571 | 10 019 | 2 157 | 4 445 | 7 935 | 15 766 | |
| 1954 ¹ | 62 | 16 | 2 050 | 7 445 | 1 881 | 4 009 | 6 524 | 15 512 | |
| 1939 ² | 77 | (NA) | 1 695 | 2 016 | 1 574 | 3 148 | 1 719 | (NA) | |
| 1929 ⁴ | 105 | (NA) | 3 392 | 4 936 | 3 154 | (NA) | 4 153 | 8 918 | |
| 1919 ⁵ | 93 | (NA) | 3 179 | 3 491 | 2 936 | (NA) | 3 042 | 6 765 | |
| 1909 ⁵ | 141 | (NA) | 8 552 | 4 845 | 8 199 | (NA) | 4 475 | 6 834 | |
| 1902 ⁶ | 192 | (NA) | 5 831 | 3 490 | 7 5398 | (NA) | 3 114 | 4 829 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment |
| | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | | | Total | Per production worker | |
| | | | | | | | | | |
| | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (million) | (1,000) | (1,000 hp) |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 92 673 | (⁹) | 163 | 496 | 11 072 | 1 040 | 148 | 200 | 47 |
| 1958 | 2 829 | - | 236 | 381 | 9 575 | 694 | 189 | 280 | (NA) |
| 1954 | 93 480 | 34 | 399 | 600 | 14 427 | 686 | 171 | 144 | 51 |
| INCLUDING OPERATIONS IN MANU- FACTURES: | | | | | | | | | |
| 1963 | 106 437 | 272 | 10 165 | 12 990 | 22 599 | 12 568 | (NA) | (NA) | (NA) |
| 1958 | 115 454 | (⁹) | 10 335 | 12 861 | 21 172 | 12 244 | 12 291 | 135 | (NA) |
| 1954 ¹ | 104 367 | 44 | 10 589 | 12 744 | 20 415 | 12 841 | 12 209 | 111 | 1264 |
| 1939 ² | 1 207 | (NA) | 6 | (NA) | 6 243 | (NA) | 93 | 59 | 32 |
| 1929 ⁴ | 1 330 | (NA) | 28 | 349 | 10 276 | (NA) | 154 | 49 | 40 |
| 1919 ⁵ | 1 698 | - | 92 | (NA) | 8 555 | (NA) | 13 214 | 73 | 28 |
| 1909 ⁵ | 1 322 | - | 65 | (NA) | 8 221 | (NA) | (NA) | (NA) | 27 |
| 1902 ⁶ | 1 076 | (NA) | - | (NA) | 5 905 | (NA) | (NA) | (NA) | 15 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments. Except for number of establishments, excludes data for one stone quarry operated as part of a lime plant and one clay pit operated as part of a clay products plant.

²Except for value of shipments, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing stone at such operations was \$895 thousand.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale operations, if any. No such operations were reported for 1939.

⁵Excludes data for sand and gravel operations and stone quarries operated as parts of lime plants. For 1929, there was one sand and gravel establishment and 2 such stone quarries. See also footnote 4.

⁶Excludes data for sand and gravel and common clay and shale operations. Includes data for lime plants producing lime valued at \$219 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For all other years, represents net production and excludes this duplication.

⁹Cost of minerals received for preparation is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Includes the cost of minerals received for preparation. See also footnote 10.

¹²Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹³Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 15 percent of the total kwh. equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 14 | ALL MINERAL OPERATIONS (NON-METALLIC MINERALS MINING) | 61 | 14 | 2 064 | 9 449 | 1 857 | 4 024 | 8 198 |
| | MINERAL INDUSTRIES | 44 | 10 | 846 | 4 137 | 740 | 1 583 | 3 435 |
| | INCLUDED IN MANUFACTURES | 17 | 4 | 1 218 | 15 312 | 1 117 | 2 441 | 4 763 |
| 1421 | CRUSHED AND BROKEN STONE (MINERAL INDUSTRY) | 7 | 1 | 95 | 495 | 81 | 196 | 351 |
| 1441 | SAND AND GRAVEL (MINERAL INDUSTRY) . . | 20 | 1 | 76 | 247 | 60 | 127 | 233 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 14 | ALL MINERAL OPERATIONS (NON-METALLIC MINERALS MINING) | 16 355 | 27 812 | 122 599 | 31 568 | 2 571 | 15 766 | |
| | MINERAL INDUSTRIES | 8 780 | 3 332 | 11 072 | 1 040 | 790 | 6 823 | |
| | INCLUDED IN MANUFACTURES | 7 575 | 24 480 | 111 527 | 3 528 | 1 781 | 8 943 | |
| 1421 | CRUSHED AND BROKEN STONE (MINERAL INDUSTRY) | 1 027 | 594 | 1 405 | 216 | 158 | 1 686 | |
| 1441 | SAND AND GRAVEL (MINERAL INDUSTRY) . . | 355 | 294 | 590 | 59 | 91 | 670 | |

Note: See appendix A for an explanation of terms used.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| 14 | ALL MINERAL INDUSTRIES (NONMETALLIC MINERALS MINING) | 3 332 | 2 673 | (3) | 163 | 496 | 1 040 | 390 | 650 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . . | 594 | 484 | - | 8 | 102 | 216 | - | 216 | 803 | 42 254 | 245 | (4) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.

²Represents expenditures during the year for both new and used plant and equipment.

³Cost of minerals received for preparation is included with cost of supplies, purchases for resale, and purchased fuels and electric energy.

⁴Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 43 | 43 | 15 | - | 15 | - | 28 | 4 | 24 | - | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | - | 588 | 100 | 488 | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | 6 028 | 947 | 5 081 | - | - |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 43 | 43 | 15 | - | 15 | - | 28 | 4 | 24 | - | - |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | - | 588 | 100 | 488 | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | 6 028 | 947 | 5 081 | - | - |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 7 | 7 | 1 | - | 1 | - | 6 | - | 6 | - | - |
| | NUMBER OF EMPLOYEES..... | 95 | 95 | (D) | - | (D) | - | (D) | - | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 1 027 | 1 027 | (D) | - | (D) | - | (D) | - | (D) | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 20 | 20 | 5 | - | 5 | - | 15 | - | 15 | - | - |
| | NUMBER OF EMPLOYEES..... | 76 | 76 | 2 | - | 2 | - | 74 | - | 74 | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 355 | 355 | 36 | - | 36 | - | 319 | - | 319 | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties: 1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|---|-----------------------------|---------------------------------|---------------|---------|---|-----------|-------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 61 | 14 | 2 064 | 9 449 | 1 857 | 4 024 | 8 198 | 16 355 | 7 812 | 22 599 | 1 568 | 2 571 | 15 766 |
| | MINERAL INDUSTRIES | 44 | 10 | 846 | 4 137 | 740 | 1 583 | 3 435 | 8 780 | 3 332 | 11 072 | 1 040 | 790 | 6 823 |
| | INCLUDED IN MANUFACTURES ² | 17 | 4 | 1 218 | 5 312 | 1 117 | 2 441 | 4 763 | 7 575 | 4 480 | 11 527 | 528 | 1 781 | 8 943 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| 14 | CHITTENDEN COUNTY, TOTAL | 5 | 1 | 78 | 415 | 59 | 130 | 258 | 469 | 364 | 676 | 157 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 64 | 312 | 59 | 130 | 258 | 469 | 364 | 676 | 157 | 64 | 504 |
| 14 | RUTLAND COUNTY, TOTAL. | 9 | - | 47 | 159 | 44 | 99 | 151 | 408 | 163 | 507 | 64 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 9 | - | 47 | 159 | 44 | 99 | 151 | 408 | 163 | 507 | 64 | (NA) | (NA) |
| 14 | WINDSOR COUNTY, TOTAL. | 5 | 1 | 47 | 210 | 40 | 81 | 168 | 444 | 191 | 583 | 52 | (NA) | (NA) |
| | NONMETALLIC MINERALS MINING. | 5 | 1 | 47 | 210 | 40 | 81 | 168 | 444 | 191 | 583 | 52 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas field or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the States and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.²See table 2A footnotes 1 and 2.³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

101 Iron ores
102 Copper ores
103 Lead and zinc ores
104 Gold and silver ores
105 Bauxite
106 Ferroalloy ores
108 Metal mining services

109 Miscellaneous metal ores
110 Anthracite
111C Anthracite mining services
120 Bituminous coal and lignite
12C Coal mining services
131 Crude petroleum and natural gas
132 Natural gas liquids

138 Oil and gas field services
141 Dimension stone
141M Dimension stone in manufactures
142 Crushed and broken stone
142M Crushed and broken stone in manufactures
144 Sand and gravel
144M Sand and gravel in manufactures

145 Clay and related minerals
145M Clay and related minerals in manufactures
147 Chemical and fertilizer minerals
148 Nonmetallic minerals services
149 Miscellaneous minerals, n.e.c.
149M Miscellaneous minerals, n.e.c., in manufactures

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|--|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M | |
| VERMONT: TOTAL | 61 | 44 | 17 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | 13 | 7 | - | 20 | 4 | 1 | - | - | - | 1 | 6 | |
| NO EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | 1 | - | - | - | - | - | - | |
| 1-4 EMPLOYEES | 25 | 20 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 2 | - | 15 | 3 | - | - | - | 1 | 1 | - | |
| 5-9 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | 1 | - | - | - | - | - | 1 | - | |
| 10-19 EMPLOYEES | 10 | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 5 | 3 | - | - | - | - | - | - | - | 1 | - | |
| 20-49 EMPLOYEES | 7 | 5 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | 1 | - | 1 | - | 1 | - | - | - | 1 | - | |
| 50-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | 1 | - | |
| 100-249 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | |
| 500-999 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | 1 | - | |
| ADDISON COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| BENNINGTON COUNTY: TOTAL | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | |
| CHITTENDEN COUNTY: TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 3 | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 2 | 1 | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| ESSEX COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| FRANKLIN COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | |
| LAMOILLE COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | 1 | |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| ORANGE COUNTY: TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 2 | - | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 2 | - | - | - | - | - | - | - | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| ORLEANS COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |
| RUTLAND COUNTY: TOTAL | 22 | 9 | 13 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 12 | 4 | - | - | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 18 | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 8 | 4 | - | - | 1 | - | - | - | - | 1 | - | |
| 20-99 EMPLOYEES | 2 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | |
| 500-999 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| WASHINGTON COUNTY: TOTAL | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | 4 | - | - | - | - | - | - | 1 | |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 4 | - | - | - | - | - | - | 1 | |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | |
| WINDSOR COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | 3 | |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | 2 | |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

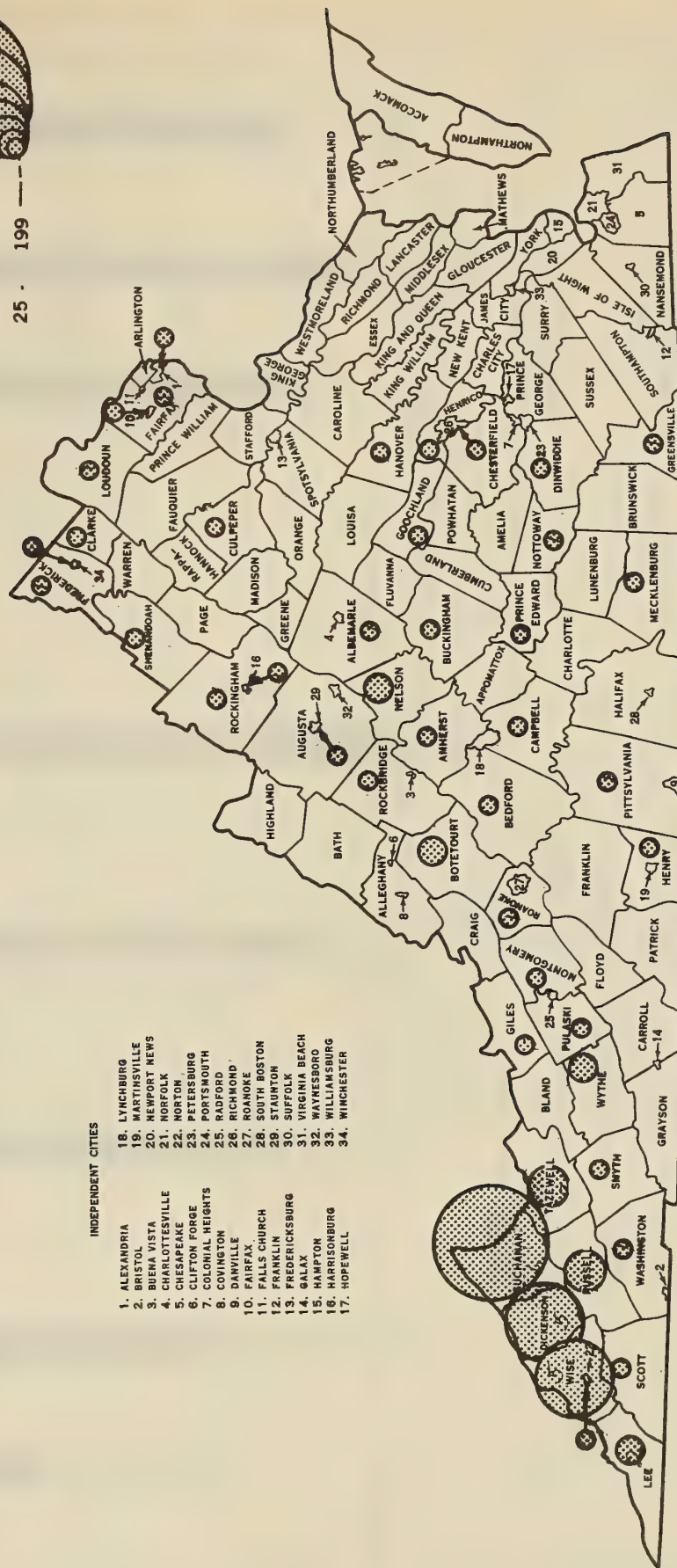
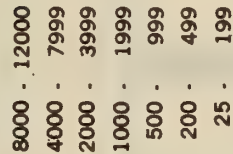
VIRGINIA

RANK AMONG STATES

EMPLOYMENT - 11

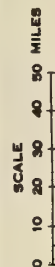
VALUE OF SHIPMENT - 19

EMPLOYMENT



INDEPENDENT CITIES

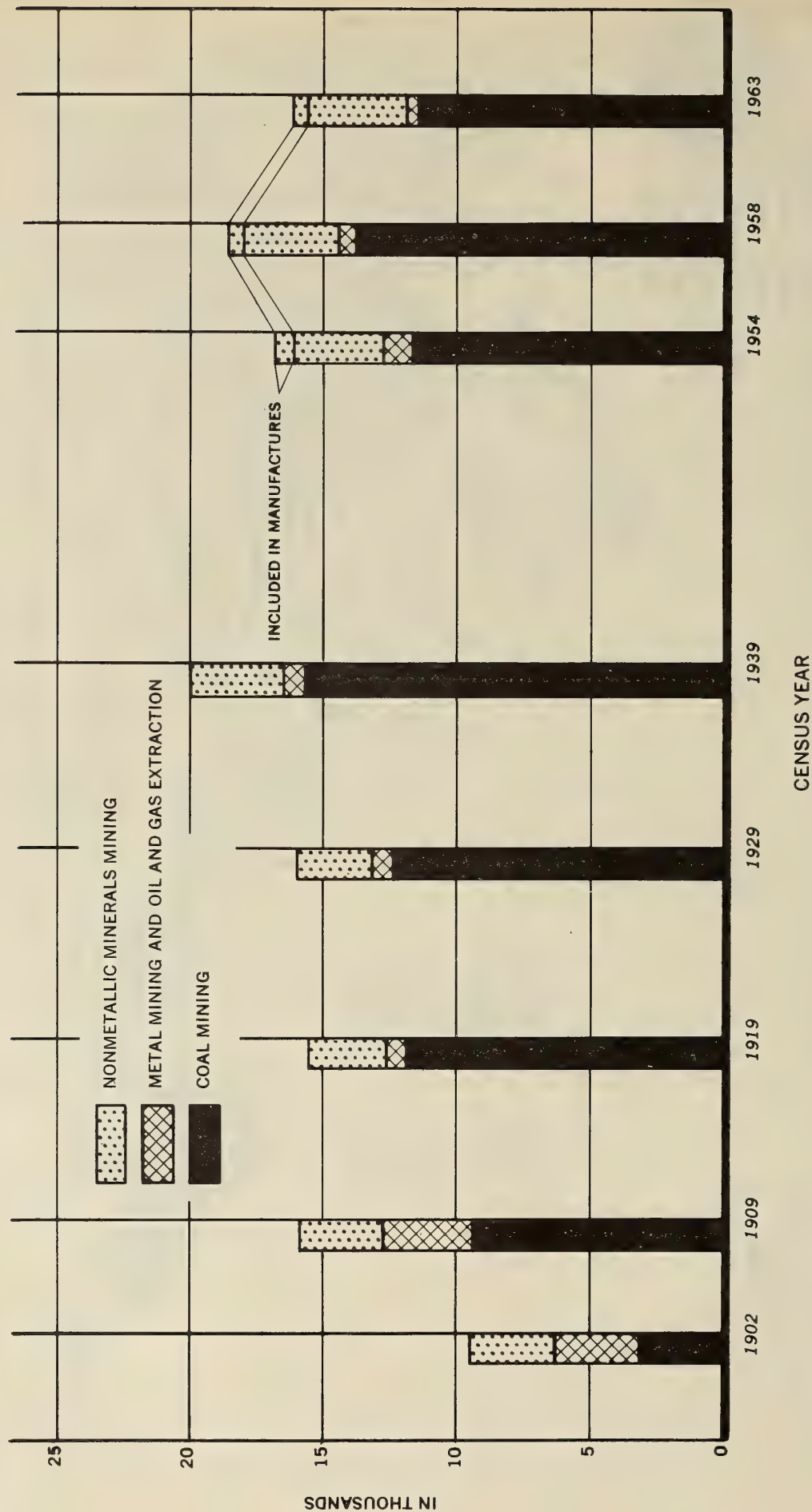
1. ALEXANDRIA
2. BRISTOL
3. BUENA VISTA
4. CHARLOTTESVILLE
5. CHESAPEAKE
6. CLIFTON FORGE
7. COLONIAL HEIGHTS
8. COVINGTON
9. DANVILLE
10. FAIRFAX
11. FALLS CHURCH
12. FRANKLIN
13. FREDERICKSBURG
14. GALAX
15. HAMPTON
16. HARRISONBURG
17. HOPEWELL
18. LYNCHBURG
19. MARTINSVILLE
20. NEWPORT NEWS
21. NORFOLK
22. NORTON
23. PETERSBURG
24. PORTSMOUTH
25. RADFORD
26. RICHMOND
27. ROANOKE
28. SOUTH BOSTON
29. STAUNTON
30. SUFFOLK
31. VIRGINIA BEACH
32. WAYNESBORO
33. WILLIAMSBURG
34. WINCHESTER



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

VIRGINIA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 944 | 201 | 15 631 | 66 947 | 13 972 | 25 514 | 57 894 | 144 818 | |
| 1958 | 1 033 | 196 | 18 014 | 68 399 | 15 672 | 26 377 | 57 270 | 135 472 | |
| 1954 | 755 | 153 | 16 119 | 52 823 | 14 400 | 25 045 | 45 027 | 89 095 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 985 | 210 | 16 225 | 69 403 | 14 539 | 26 656 | 60 247 | 151 762 | |
| 1958 | 1 066 | 204 | 18 600 | 70 371 | 16 240 | 27 460 | 59 154 | 142 571 | |
| 1954 | 788 | 164 | 16 864 | 55 064 | 15 123 | 26 508 | 47 156 | 96 014 | |
| 1939 ¹ | 257 | (NA) | 20 061 | 20 942 | 19 010 | 28 998 | 18 888 | 28 642 | |
| 1929 ⁴ | 193 | (NA) | 16 051 | 16 720 | 15 281 | (NA) | 14 854 | 23 936 | |
| 1919 ⁵ | 206 | (NA) | 15 603 | 17 930 | 14 666 | (NA) | 16 208 | 22 952 | |
| 1909 ⁶ | 195 | (NA) | 15 996 | 5 926 | 15 362 | (NA) | 5 296 | 6 985 | |
| 1902 ⁶ | 194 | (NA) | 9 531 | 3 899 | 8 866 | (NA) | 3 393 | 5 381 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 42 246 | 32 785 | 8 307 | 10 967 | 224 132 | 14 991 | 3 642 | 261 | 748 |
| 1958 | 41 107 | 29 209 | 12 076 | 17 774 | 199 246 | 36 392 | 1 635 | 104 | (NA) |
| 1954 | 36 812 | 10 002 | 4 502 | 7 429 | 137 543 | 10 297 | 1 389 | 96 | 408 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| 1963 | 1044 107 | 32 785 | 108 307 | 110 967 | 232 753 | 1115 175 | 113 642 | 261 | 11748 |
| 1958 | 1042 170 | 29 209 | 102 076 | 117 777 | 207 408 | 1136 395 | 111 638 | 101 | (NA) |
| 1954 | 1037 963 | 10 003 | 104 502 | 117 449 | 145 592 | 110 339 | 111 399 | 93 | 11411 |
| 1939 ² | 5 939 | (NA) | 44 | (NA) | 34 625 | (NA) | 701 | 37 | 146 |
| 1929 ⁴ | 5 563 | (NA) | 42 | 1 143 | 29 541 | (NA) | 800 | 52 | 112 |
| 1919 ⁵ | 6 066 | - | 345 | (NA) | 29 363 | (NA) | 1 629 | 111 | 58 |
| 1909 ⁶ | 1 691 | - | 120 | (NA) | 8 796 | (NA) | (NA) | (NA) | 36 |
| 1902 ⁶ | 863 | (NA) | 36 | (NA) | 6 280 | (NA) | (NA) | (NA) | 19 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments, if any.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing slate at such operations was \$186 thousand; this value has been included in the value of shipments and value added in mining. The comparable values for limestone, granite, marble, trap rock, and sandstone are not available.

³Represents number of mines and quarries and, for mining services industries, number of operating companies.

⁴Excludes data for common clay and shale mining operations. In 1939, there were 17 such mines with products valued at \$160 thousand.

⁵Excludes data for sand and gravel mining operations and stone quarries operated as parts of cement and lime plants. In 1929, there were 8 such sand and gravel mining operations, with products valued at \$679 thousand, and 12 such stone quarries, with products valued at \$1,022 thousand. See also footnote 4.

⁶Excludes data for sand and gravel and common clay and shale mining operations,

and stone quarries operated as parts of cement plants. Includes data for lime plants producing lime valued at \$242 thousand.

⁷Figures for average employment were reduced to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, clay, and gypsum mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplications due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁹Excludes the cost of natural gas processed at natural gas liquids plants.

¹⁰For crushed and broken stone, sand and gravel, clay, gypsum, and, for 1963, dimension stone mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, clay, gypsum, and for 1963 dimension stone mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 12 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|--------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 985 | 210 | 16 225 | 69 403 | 14 539 | 26 656 | 60 247 |
| | MINERAL INDUSTRIES. | 944 | 201 | 15 631 | 66 947 | 13 972 | 25 514 | 57 894 |
| | INCLUDED IN MANUFACTURES. | 41 | 9 | ¹ 594 | ¹² 456 | ¹ 567 | 1 142 | 2 353 |
| 10 | METAL MINING. | 5 | 3 | 396 | 1 851 | 318 | 615 | 1 309 |
| 12 | BITUMINOUS COAL MINING. | 775 | 129 | 11 525 | 49 009 | 10 469 | 17 926 | 43 525 |
| 1211 | BITUMINOUS COAL | 769 | 126 | 11 349 | 47 858 | 10 309 | 17 686 | 42 580 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 6 | 3 | 176 | 1 151 | 160 | 240 | 945 |
| 13 | OIL AND GAS EXTRACTION. | 7 | - | 7 | 49 | 6 | 12 | 37 |
| 14 | NONMETALLIC MINERALS MINING | 198 | 78 | 4 297 | 18 494 | 3 746 | 8 103 | 15 376 |
| | MINERAL INDUSTRIES. | 157 | 69 | 3 703 | 16 038 | 3 179 | 6 961 | 13 023 |
| | INCLUDED IN MANUFACTURES. | 41 | 9 | ¹ 594 | ¹² 456 | ¹ 567 | 1 142 | 2 353 |
| | DIMENSION STONE | 8 | 2 | 190 | 623 | 161 | 330 | 512 |
| 142 | CRUSHED AND BROKEN STONE. | 105 | 56 | 2 559 | 11 256 | 2 237 | 4 998 | 9 153 |
| | MINERAL INDUSTRY. | 95 | 50 | 2 326 | 10 142 | 2 004 | 4 533 | 8 039 |
| | INCLUDED IN MANUFACTURES. | 10 | 6 | ¹² 33 | ¹ 114 | ¹ 233 | 465 | 1 114 |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY | 62 | 32 | 1 460 | 5 927 | 1 269 | 2 782 | 4 755 |
| | CRUSHED AND BROKEN GRANITE SUBINDUSTRY. | 16 | 10 | 468 | 2 201 | 407 | 963 | 1 829 |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 17 | 8 | 398 | 2 014 | 328 | 788 | 1 455 |
| 144 | SAND AND GRAVEL | 56 | 12 | 784 | 3 731 | 702 | 1 455 | 3 270 |
| | MINERAL INDUSTRY. | 50 | 12 | 760 | 3 633 | 678 | 1 407 | 3 172 |
| | INCLUDED IN MANUFACTURES. | 6 | - | ¹² 4 | ¹ 98 | ¹² 4 | 48 | 98 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 46 | 10 | 657 | 3 225 | 591 | 1 218 | 2 856 |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 7 | 5 | 218 | 967 | 159 | 355 | 651 |
| | CLAY AND RELATED MINERALS, N.E.C. | 25 | 4 | ¹² 44 | ¹ 126 | ¹² 01 | 427 | 830 |
| Code | Industry group and industry | 1963-Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| | ALL MINERAL OPERATIONS. | 151 762 | ² 96 166 | ¹² 32 753 | ³ 15 175 | 18 600 | 142 571 | |
| | MINERAL INDUSTRIES. | 144 818 | 94 305 | 224 132 | 14 991 | 18 014 | 135 472 | |
| | INCLUDED IN MANUFACTURES. | 6 944 | ² 1 861 | ¹⁸ 621 | ³ 184 | ¹⁵ 86 | 7 099 | |
| 10 | METAL MINING. | 4 401 | 2 661 | 6 677 | 385 | 595 | 3 525 | |
| 12 | BITUMINOUS COAL MINING. | 98 118 | 70 724 | 159 425 | 9 417 | 13 858 | 101 666 | |
| 1211 | BITUMINOUS COAL | 95 639 | 68 131 | 154 963 | 8 807 | 13 737 | 100 135 | |
| 1213 | BITUMINOUS COAL MINING SERVICES | 2 479 | 2 593 | 4 462 | 610 | 121 | 1 531 | |
| 13 | OIL AND GAS EXTRACTION. | 771 | 118 | 862 | 27 | 41 | 555 | |
| 14 | NONMETALLIC MINERALS MINING | 48 472 | ²² 663 | ¹⁶ 5 789 | ³⁵ 346 | 4 106 | 36 825 | |
| | MINERAL INDUSTRIES. | 41 528 | 20 802 | 57 168 | 5 162 | 3 520 | 29 726 | |
| | INCLUDED IN MANUFACTURES. | 6 944 | ² 1 861 | ¹⁸ 621 | ³ 184 | ¹⁵ 86 | 7 099 | |
| | DIMENSION STONE | 1 239 | 553 | 1 606 | 186 | (NA) | (NA) | |
| 142 | CRUSHED AND BROKEN STONE. | 31 923 | ²³ 928 | ¹⁴ 2 710 | (NA) | 2 031 | 19 744 | |
| | MINERAL INDUSTRY. | 28 809 | 13 009 | 38 677 | 3 141 | 1 839 | 15 526 | |
| | INCLUDED IN MANUFACTURES. | 3 114 | ² 919 | ¹⁴ 033 | (NA) | ¹ 192 | 4 218 | |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY | 14 688 | 6 560 | 19 358 | 1 890 | 1 268 | 9 933 | |
| | CRUSHED AND BROKEN GRANITE SUBINDUSTRY. | 7 211 | 3 629 | 10 167 | 673 | 378 | 3 394 | |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 6 910 | 2 820 | 9 152 | 578 | 193 | 2 199 | |
| 144 | SAND AND GRAVEL | 8 947 | ²⁵ 922 | ¹³ 221 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY. | 8 407 | 5 882 | 12 641 | 1 648 | 848 | 9 034 | |
| | INCLUDED IN MANUFACTURES. | 540 | ² 40 | ¹⁵ 80 | (NA) | (NA) | (NA) | |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. | 7 645 | 5 384 | 11 486 | 1 543 | (NA) | (NA) | |
| 145 | CLAY AND RELATED MINERALS: MINERAL INDUSTRIES. | 2 110 | 1 245 | 3 067 | 288 | (NA) | (NA) | |
| | CLAY AND RELATED MINERALS, N.E.C. | 3 173 | ² 1 453 | ¹⁴ 338 | (NA) | ¹³ 29 | 3 295 | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.³Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 94 305 | 42 246 | 32 785 | 8 307 | 10 967 | 14 991 | 478 | 14 513 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 2 661 | 2 157 | (3) | 189 | 315 | 385 | 78 | 307 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING. | 70 724 | 36 969 | (3) | 6 935 | 6 820 | 9 417 | 352 | 9 065 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL | 68 131 | 35 678 | (3) | 6 304 | 6 149 | 8 807 | 352 | 8 455 | 30 816 | 129 289 | - | - |
| 14 | NONMETALLIC MINERALS MINING | 20 802 | 15 490 | 356 | 1 124 | 3 832 | 5 162 | 43 | 5 119 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. | 13 009 | 9 722 | (3) | 849 | 2 438 | 3 141 | 32 | 3 109 | 23 017 | 37 441 | 3 791 | 44 546 |
| | CRUSHED AND BROKEN LIMESTONE. | 6 560 | 4 821 | (3) | 301 | 1 438 | 1 890 | 15 | 1 875 | 15 032 | 18 346 | (3) | 62 766 |
| | CRUSHED AND BROKEN GRANITE. | 3 629 | 2 859 | - | 222 | 548 | 673 | - | 673 | 6 504 | 10 067 | - | - |
| | CRUSHED AND BROKEN STONE, N.E.C. | 2 820 | 2 042 | (3) | 326 | 452 | 578 | 17 | 561 | 3 580 | 8 913 | 742 | 7143 |
| 1441 | SAND AND GRAVEL | 5 882 | 4 375 | (3) | 258 | 1 249 | 1 648 | 9 | 1 639 | 9 755 | 12 929 | 4389 | (8) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 5 384 | 3 974 | (3) | 230 | 1 180 | 1 543 | 9 | 1 534 | 9 294 | (d) | (d) | (d) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹p.e.c. Not elsewhere classified.²Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.³Represents expenditures during the year for both new and used plant and equipment.⁴Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁵Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁶Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry. Also includes the quantity of stone produced and used in making lime.⁷Includes figures for minerals produced and used in the same establishment in making lime. The value of such stone was estimated.⁸Excludes figures for minerals produced and used in the same establishment in making manufactured products.⁹Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 4.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Nonproducing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|-----------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 936 | 933 | 706 | 661 | 29 | 16 | 195 | 47 | 130 | 18 | 32 | (D) |
| | NUMBER OF EMPLOYEES..... | (D) | 15 840 | 7 882 | 7 385 | 298 | 199 | 7 482 | 2 732 | 3 244 | 1 506 | 476 | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | (D) | 143 857 | 43 496 | 36 635 | 3 660 | 3 201 | 93 006 | 30 120 | 37 547 | 25 339 | 7 355 | (D) |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 769 | 768 | 689 | 661 | 16 | 12 | 52 | 44 | 1 | 7 | 27 | (D) |
| | NUMBER OF EMPLOYEES..... | 11 761 | (D) | 7 737 | 7 385 | 160 | 192 | (D) | 2 380 | (D) | (D) | 345 | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 96 188 | (D) | 40 688 | 36 635 | 1 656 | 2 397 | (D) | 27 013 | (D) | (D) | 5 422 | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 157 | 157 | 13 | - | 13 | - | 140 | 1 | 128 | 11 | 4 | (D) |
| | NUMBER OF EMPLOYEES..... | 3 692 | 3 692 | 138 | - | 138 | - | (D) | (D) | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 42 472 | 42 472 | 2 004 | - | 2 004 | - | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 95 | 95 | 3 | - | 3 | - | 90 | 1 | 88 | 1 | 2 | (D) |
| | NUMBER OF EMPLOYEES..... | 2 318 | 2 318 | (D) | - | (D) | - | 2 186 | (D) | 2 132 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 28 809 | 28 809 | (D) | - | (D) | - | 26 532 | (D) | 25 645 | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 50 | 50 | 6 | - | 6 | - | 42 | - | 32 | 10 | 2 | (D) |
| | NUMBER OF EMPLOYEES..... | 760 | 760 | 14 | - | 14 | - | (D) | - | 495 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 8 407 | 8 407 | 134 | - | 134 | - | (D) | - | 5 758 | (D) | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| | ALL MINERAL OPERATIONS | 985 | 210 | 16 225 | 69 403 | 14 539 | 26 656 | 60 247 | 151 762 | 96 166 | 232 753 | 15 175 | 18 600 | 142 571 |
| | MINERAL INDUSTRIES | 944 | 201 | 15 631 | 66 947 | 13 972 | 25 514 | 57 894 | 144 818 | 94 305 | 224 132 | 14 991 | 18 014 | 135 472 |
| | INCLUDED IN MANUFACTURES ² | 41 | 9 | 594 | 2 456 | 567 | 142 | 2 353 | 6 944 | 1 861 | 8 621 | 184 | 586 | 7 099 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALEXANDRIA, TOTAL | 4 | 1 | 44 | 270 | 37 | 77 | 231 | 705 | 343 | 941 | 107 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 1 | 44 | 270 | 37 | 77 | 231 | 705 | 343 | 941 | 107 | 31 | 678 |
| | BOTETOURT COUNTY, TOTAL | 6 | 5 | 264 | 1 238 | 231 | 568 | 930 | 2 509 | 1 447 | 3 548 | 408 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 5 | 264 | 1 238 | 231 | 568 | 930 | 2 509 | 1 447 | 3 548 | 408 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 6 | 5 | 264 | 1 238 | 231 | 568 | 930 | 2 509 | 1 447 | 3 548 | 408 | 225 | 1 650 |
| | BUCHANAN COUNTY, TOTAL | 408 | 67 | 5 614 | 19 824 | 5 244 | 8 469 | 18 473 | 41 624 | 30 621 | 68 311 | 3 934 | 6 189 | (NA) |
| 12 | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 1211 | BITUMINOUS COAL. | 401 | 66 | 5 586 | 19 637 | 5 223 | 8 427 | 18 345 | 40 668 | 30 129 | 66 889 | 3 908 | (NA) | (NA) |
| | BUCKINGHAM COUNTY, TOTAL | 4 | 3 | 139 | 616 | 117 | 237 | 496 | 2 220 | 985 | 3 083 | 122 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 3 | 139 | 616 | 117 | 237 | 496 | 2 220 | 985 | 3 083 | 122 | (NA) | (NA) |
| | CAMPBELL COUNTY, TOTAL | 4 | 2 | 80 | 329 | 77 | 139 | 300 | 903 | 535 | 1 241 | 197 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 2 | 80 | 329 | 77 | 139 | 300 | 903 | 535 | 1 241 | 197 | (NA) | (NA) |
| | DICKENSON COUNTY, TOTAL | 89 | 17 | 2 154 | 11 365 | 1 952 | 3 573 | 10 157 | 25 468 | 9 484 | 33 349 | 1 608 | (NA) | (NA) |
| 12 | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 1211 | BITUMINOUS COAL. | 86 | 16 | 2 069 | 10 746 | 1 905 | 3 497 | 9 817 | 24 403 | 8 708 | 31 745 | 1 366 | (NA) | (NA) |
| | FAIRFAX COUNTY, TOTAL | 5 | 3 | 147 | 893 | 130 | 328 | 763 | 2 784 | 1 602 | 4 174 | 212 | 189 | 2 291 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 3 | 147 | 893 | 130 | 328 | 763 | 2 784 | 1 602 | 4 174 | 212 | (NA) | (NA) |
| | FAIRFAX, TOTAL | 3 | - | 47 | 251 | 43 | 88 | 238 | 976 | 271 | 1 119 | 128 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 3 | - | 47 | 251 | 43 | 88 | 238 | 976 | 271 | 1 119 | 128 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 3 | - | 47 | 251 | 43 | 88 | 238 | 976 | 271 | 1 119 | 128 | (NA) | (NA) |
| | FREDERICK COUNTY, TOTAL | 6 | 4 | 167 | 802 | 149 | 382 | 692 | 1 982 | 1 011 | 2 629 | 364 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 4 | 167 | 802 | 149 | 382 | 692 | 1 982 | 1 011 | 2 629 | 364 | 139 | 876 |
| | LEE COUNTY, TOTAL | 46 | 6 | 464 | 1 412 | 428 | 768 | 1 288 | 2 469 | 1 256 | 3 482 | 243 | (NA) | (NA) |
| | LOUDOUN COUNTY, TOTAL | 5 | 2 | 129 | 674 | 102 | 281 | 416 | 2 682 | 983 | 3 393 | 272 | 64 | 415 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 2 | 129 | 674 | 102 | 281 | 416 | 2 682 | 983 | 3 393 | 272 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 5 | 2 | 129 | 674 | 102 | 281 | 416 | 2 682 | 983 | 3 393 | 272 | (NA) | (NA) |
| | RICHMOND, TOTAL | 4 | 2 | 87 | 469 | 69 | 161 | 356 | 1 397 | 497 | 1 437 | 457 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 2 | 82 | 439 | 69 | 161 | 356 | 1 397 | 497 | 1 437 | 457 | 82 | 937 |
| | ROANOKE COUNTY, TOTAL | 5 | 2 | 113 | 527 | 102 | 253 | 444 | 1 532 | 618 | 1 922 | 228 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 2 | 113 | 527 | 102 | 253 | 444 | 1 532 | 618 | 1 922 | 228 | (NA) | (NA) |
| | ROCKBRIDGE COUNTY, TOTAL | 3 | 2 | 92 | 219 | 64 | 118 | 175 | 577 | 283 | 744 | 116 | 88 | 387 |
| 14 | NONMETALLIC MINERALS MINING. | 3 | 2 | 92 | 219 | 64 | 118 | 175 | 577 | 283 | 744 | 116 | (NA) | (NA) |
| | ROCKINGHAM COUNTY, TOTAL | 5 | 3 | 142 | 503 | 117 | 252 | 388 | 1 082 | 540 | 1 473 | 149 | (NA) | (NA) |
| | RUSSELL COUNTY, TOTAL | 24 | 7 | 905 | 4 674 | 701 | 1 194 | 3 437 | 6 778 | 3 174 | 9 507 | 445 | (NA) | (NA) |
| | SCOTT COUNTY, TOTAL | 8 | 1 | 71 | 265 | 64 | 98 | 231 | 847 | 303 | 1 057 | 93 | 84 | 731 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 70 | 264 | 63 | 97 | 230 | 845 | 301 | 1 053 | 93 | (NA) | (NA) |
| 142 | CRUSHED AND BROKEN STONE | 5 | 1 | 70 | 264 | 63 | 97 | 230 | 845 | 301 | 1 053 | 93 | (NA) | (NA) |
| | SMYTH COUNTY, TOTAL | 5 | 1 | 54 | 259 | 49 | 108 | 189 | 604 | 144 | 673 | 75 | 51 | 336 |
| 14 | NONMETALLIC MINERALS MINING. | 5 | 1 | 54 | 259 | 49 | 108 | 189 | 604 | 144 | 673 | 75 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|----------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 12 1211 | TAZEWELL COUNTY: TOTAL | 62 | 11 | 920 | 3 349 | 723 | 1 222 | 2 231 | 5 112 | 13 337 | 8 023 | 426 | (NA) | (NA) |
| | WISE COUNTY: TOTAL | 156 | 28 | 2 301 | 9 211 | 2 141 | 3 632 | 8 587 | 19 741 | 23 860 | 40 576 | 3 025 | 3 082 | (NA) |
| | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | BITUMINOUS COAL | 152 | 26 | 2 181 | 8 528 | 2 032 | 3 465 | 8 010 | 18 394 | 22 409 | 38 154 | 2 649 | (NA) | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

[illegible]

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WYTHE COUNTY, TOTAL | 5 | 5 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| YORK COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | |
| UNDISTRIBUTED, TOTAL | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - | - | - | 1 | - | |
| 0-19 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 5 | - | - | - | - | - | - | - | - | - | 1 | - | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

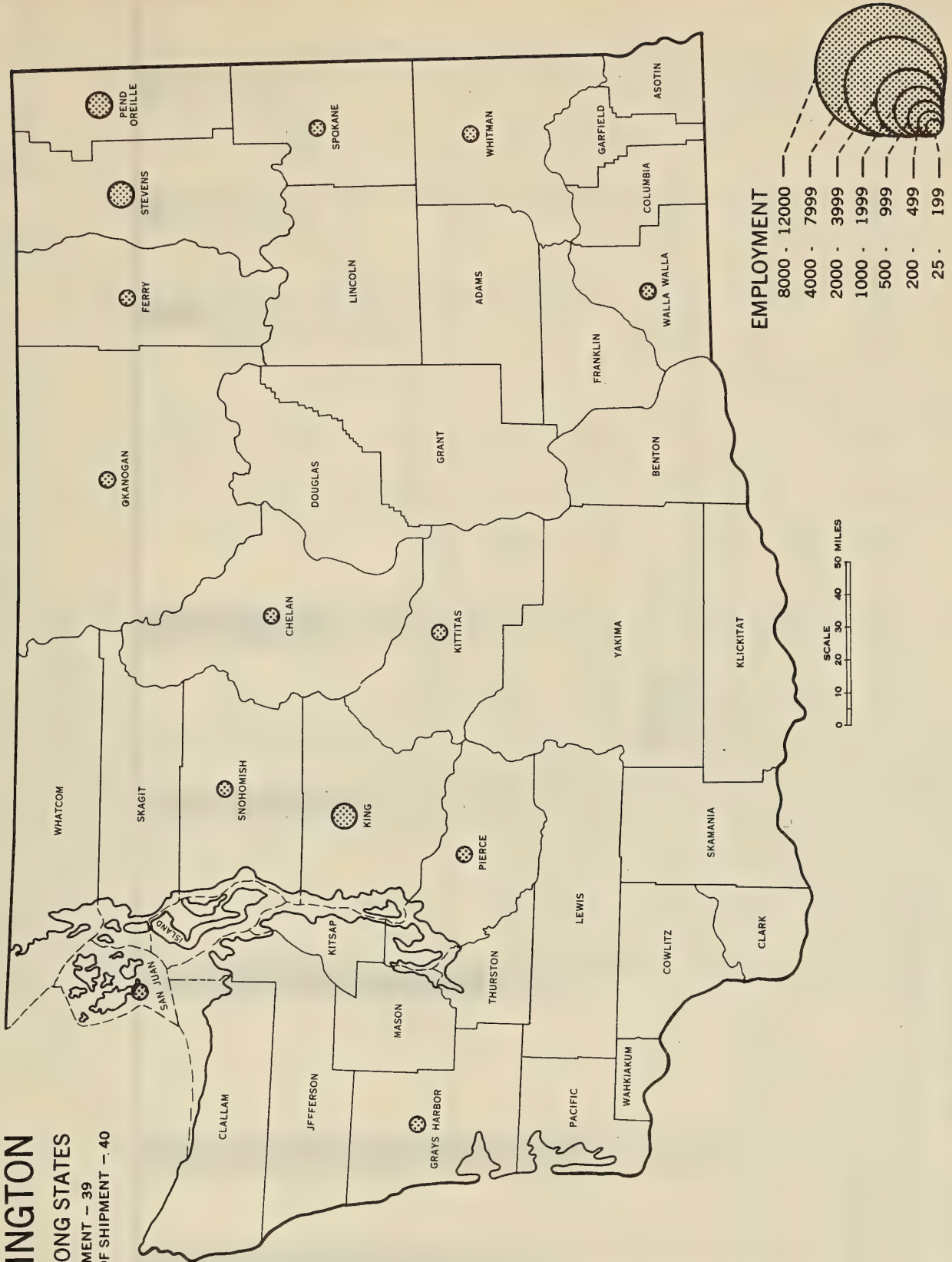
(NA) Not available.

(X) Not applicable.

EMPLOYMENT IN MINING BY COUNTY: 1963

WASHINGTON

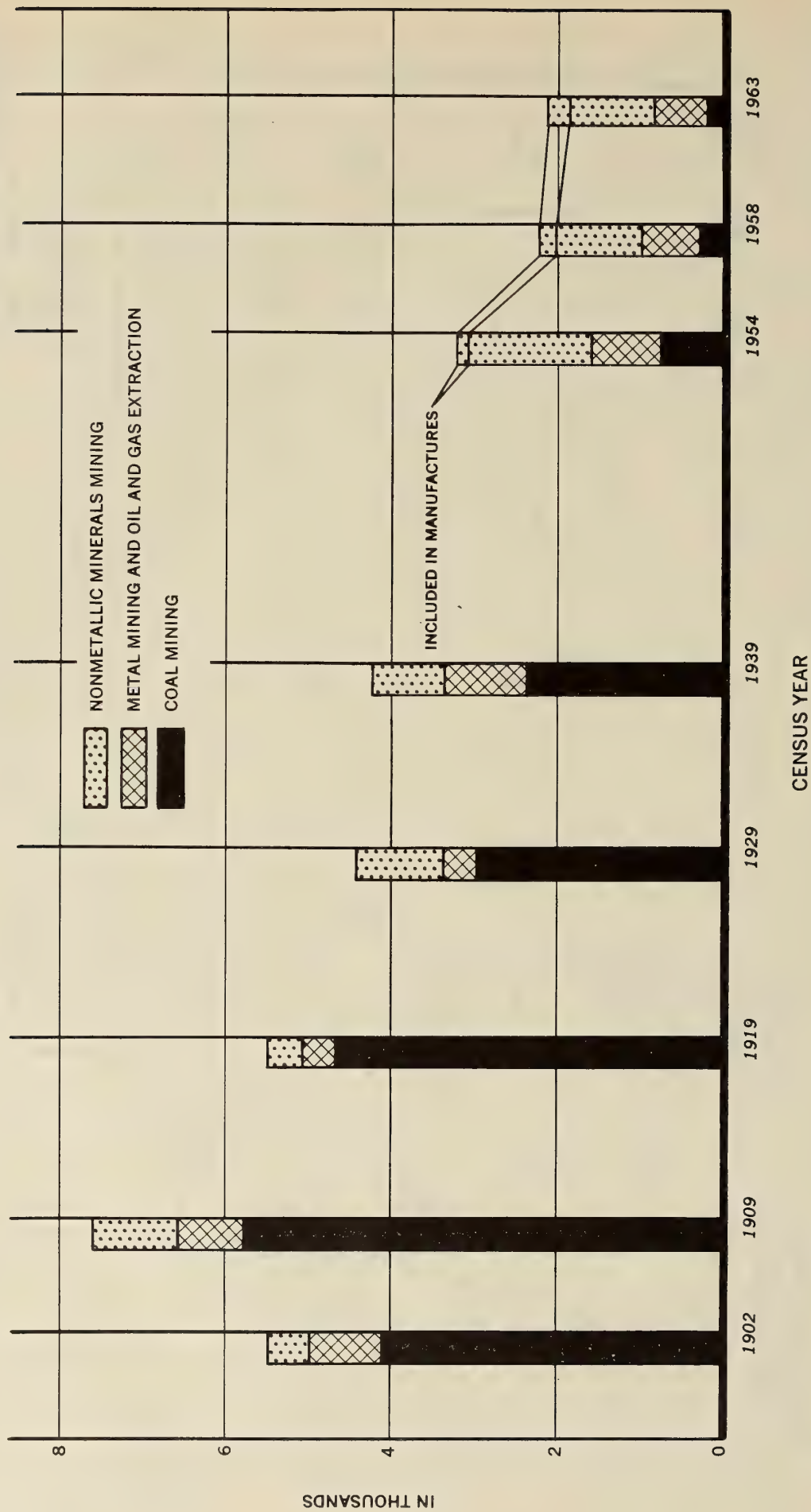
RANK AMONG STATES
EMPLOYMENT - 39
VALUE OF SHIPMENT - 40



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

WASHINGTON



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: ¹ | | | | | | | | | |
| 1963 | 248 | 22 | 1 876 | 11 906 | 1 543 | 3 005 | 9 604 | 24 531 | |
| 1958 | 200 | 28 | 2 035 | 10 891 | 1 597 | 2 792 | 7 881 | 23 917 | |
| 1954 | 287 | 33 | 3 096 | 14 218 | 2 515 | 4 651 | 10 840 | 22 346 | |
| INCLUDING OPERATIONS IN MANUFACTURES: ² | | | | | | | | | |
| 1963 | 294 | 24 | 2 138 | 13 252 | 1 795 | 3 492 | 10 921 | 29 299 | |
| 1958 | 239 | 30 | 2 236 | 11 977 | 1 795 | 3 187 | 8 944 | 28 386 | |
| 1954 | 311 | 35 | 3 228 | 14 781 | 2 647 | 4 912 | 11 403 | 25 182 | |
| 1939 ³ | 177 | (NA) | 4 248 | 6 203 | 3 894 | 6 608 | 5 376 | 11 075 | |
| 1929 ⁵ | 141 | (NA) | 4 425 | 7 196 | 4 131 | (NA) | 6 480 | 11 057 | |
| 1919 ⁶ | 98 | (NA) | 5 487 | 8 330 | 5 155 | (NA) | 7 629 | 10 387 | |
| 1909 ⁶ | 425 | (NA) | 7 604 | 3 399 | 7 420 | (NA) | 3 128 | 6 063 | |
| 1902 ⁷ | 421 | (NA) | 5 467 | 4 732 | 5 087 | (NA) | 4 292 | 4 435 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁹ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: ¹ | | | | | | | | | |
| 1963 | 8 698 | 232 | 2 953 | 2 495 | 34 778 | 4 131 | 355 | 230 | 182 |
| 1958 | 10 480 | (10) | 1 974 | 1 568 | 34 136 | 2 803 | 475 | 297 | (NA) |
| 1954 | 7 549 | 214 | 1 740 | 2 387 | 31 404 | 2 857 | 404 | 161 | 400 |
| INCLUDING OPERATIONS IN MANUFACTURES: ² | | | | | | | | | |
| 1963 | 10 505 | 232 | 10 2 953 | 11 2 499 | 40 351 | 11 4 137 | 11 355 | 230 | 11 182 |
| 1958 | 10 095 | (10) | 10 1 974 | 11 1 568 | 39 220 | 11 2 818 | 11 481 | 268 | (NA) |
| 1954 | 10 307 | 214 | 10 1 740 | 11 2 387 | 34 998 | 11 2 857 | 11 404 | 153 | 11 400 |
| 1939 ³ | 2 554 | (NA) | 65 | (NA) | 13 694 | (NA) | 251 | 64 | 78 |
| 1929 ⁵ | 2 282 | (NA) | 28 | 659 | 13 367 | (NA) | 541 | 131 | 50 |
| 1919 ⁶ | 2 848 | - | 94 | (NA) | 13 329 | (NA) | 11 602 | 311 | 39 |
| 1909 ⁶ | 1 195 | 156 | 45 | (NA) | 7 459 | (NA) | (NA) | (NA) | 27 |
| 1902 ⁷ | 853 | (NA) | 106 | (NA) | 5 394 | (NA) | (NA) | (NA) | 12 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Excludes data for dimension stone dressing, if any, in conjunction with one dimension granite and 2 dimension sandstone quarries.

⁴Represents number of mines and quarries and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁵Excludes data for common clay and shale operations. There were 10 such mines in 1939 with products valued at \$50 thousand. Also, excludes data for oil and gas extraction operations, if any.

⁶Excludes data for sand and gravel operations and for stone quarries operated as parts of cement and lime establishments. In 1929 there were 21 such sand and gravel establishments, with products valued at \$1,096 thousand; 5 such stone quarries at cement establishments, with stone products valued at \$562 thousand; and 2 such stone quarries at lime establishments. See also footnote 5.

⁷Excludes data for sand, gravel, common clay, and shale operations. Includes data for lime plants producing lime valued at \$186 thousand.

⁸Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishments in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication.

¹⁰For 1958, the cost of minerals received for preparation is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy. For 1963, 1958, and 1954, for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to 8 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS. | 294 | 24 | 2 138 | 13 252 | 1 795 | 3 492 | 10 921 |
| | MINERAL INDUSTRIES. | 248 | 22 | 1 876 | 11 906 | 1 543 | 3 005 | 9 604 |
| | INCLUDED IN MANUFACTURES. | 46 | 2 | ¹ 262 | ¹ 346 | ¹ 252 | 487 | 1 317 |
| 10 | METAL MINING. | 46 | 5 | (D) | (D) | ² 417 | ² 854 | ² 2 473 |
| 1042 | GOLD AND SILVER ORES: LODE GOLD. | 16 | 2 | 151 | 1 062 | 134 | 289 | 919 |
| 1211 | BITUMINOUS COAL MINING: BITUMINOUS COAL. | 9 | 2 | ³ 193 | ³ 1 078 | 177 | 291 | 973 |
| 13 | OIL AND GAS EXTRACTION. | 13 | 2 | 143 | 1 227 | 78 | 142 | 660 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS (CRUDE PETROLEUM). | 8 | 2 | 120 | 1 111 | 58 | 99 | 553 |
| 14 | NONMETALLIC MINERALS MINING. | 224 | 15 | 1 294 | 7 673 | 1 123 | 2 205 | 6 813 |
| | MINERAL INDUSTRIES. | 178 | 13 | 1 032 | 6 327 | 871 | 1 718 | 5 498 |
| | INCLUDED IN MANUFACTURES. | 46 | 2 | ¹ 262 | ¹ 346 | ¹ 252 | 487 | 1 317 |
| 142 | CRUSHED AND BROKEN STONE. | 62 | 5 | 389 | 2 359 | 338 | 669 | 2 110 |
| | MINERAL INDUSTRY. | 52 | 4 | 309 | 1 826 | 258 | 509 | 1 577 |
| | INCLUDED IN MANUFACTURES. | 10 | 1 | ¹ 80 | ¹ 533 | ¹ 80 | 160 | 533 |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 19 | 2 | ¹ 130 | ¹ 774 | ¹ 121 | 265 | 726 |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY: MINERAL SUBINDUSTRY. | 37 | 3 | 227 | 1 419 | 192 | 354 | 1 221 |
| 144 | SAND AND GRAVEL. | 113 | 7 | 615 | 3 785 | 538 | 1 087 | 3 475 |
| | MINERAL INDUSTRY. | 91 | 7 | 494 | 3 227 | 417 | 845 | 2 917 |
| | INCLUDED IN MANUFACTURES. | 22 | - | ¹ 121 | ¹ 558 | ¹ 121 | 242 | 558 |
| | CLAY AND RELATED MINERALS. | 13 | 1 | ¹ 156 | ¹ 847 | ¹ 128 | 220 | 605 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. . . . | 18 | - | 34 | 167 | 31 | 70 | 144 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS. | 29 299 | ⁵ 15 189 | ¹ 40 351 | ⁶ 4 137 | 2 236 | 28 386 |
| | MINERAL INDUSTRIES. | 24 531 | 14 378 | ³ 4 778 | 4 131 | 2 035 | 23 917 |
| | INCLUDED IN MANUFACTURES. | 4 768 | ² 811 | ¹ 5 573 | ⁶ 6 | ¹ 201 | 4 469 |
| 10 | METAL MINING. | (D) | ² 3 591 | (D) | ² 650 | 585 | (D) |
| 1042 | GOLD AND SILVER ORES: LODE GOLD. | 3 145 | 832 | 3 743 | 234 | 103 | (NA) |
| 1211 | BITUMINOUS COAL MINING: BITUMINOUS COAL. | 1 141 | 412 | 1 548 | 5 | 276 | 1 609 |
| 13 | OIL AND GAS EXTRACTION. | (⁴) | 1 734 | 303 | 707 | 129 | (D) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS (CRUDE PETROLEUM). | (⁴) | (D) | (D) | 564 | 108 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | (D) | ⁵ 9 452 | (D) | ⁶ 2 775 | 1 246 | 16 979 |
| | MINERAL INDUSTRIES. | (D) | 8 641 | (D) | 2 769 | 1 045 | 12 510 |
| | INCLUDED IN MANUFACTURES. | 4 768 | ² 811 | ¹ 5 573 | ⁶ 6 | ¹ 201 | 4 469 |
| 142 | CRUSHED AND BROKEN STONE. | 5 752 | ⁵ 2 415 | ¹ 7 623 | (NA) | (NA) | (NA) |
| | MINERAL INDUSTRY. | 4 243 | 2 070 | 5 769 | 544 | 385 | 3 552 |
| | INCLUDED IN MANUFACTURES. | 1 509 | ⁵ 345 | ¹ 1 854 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN LIMESTONE SUBINDUSTRY. | 1 847 | ⁵ 676 | ¹ 2 359 | (NA) | (NA) | (NA) |
| | CRUSHED AND BROKEN STONE, N.E.C. SUBINDUSTRY: MINERAL SUBINDUSTRY. | 3 444 | 1 657 | 4 725 | 376 | 228 | 1 882 |
| 144 | SAND AND GRAVEL. | 10 523 | ⁵ 5 458 | ¹ 14 140 | (NA) | 517 | 9 157 |
| | MINERAL INDUSTRY. | 7 661 | 5 113 | 10 933 | 1 841 | 427 | 5 942 |
| | INCLUDED IN MANUFACTURES. | 2 862 | ⁵ 345 | ¹ 3 207 | (NA) | ¹ 90 | 3 215 |
| | CLAY AND RELATED MINERALS. | 2 454 | ⁵ 1 020 | ¹ 3 327 | (NA) | ¹ 204 | 2 618 |
| 149 | MISCELLANEOUS MINERALS, N.E.C.. . . . | 549 | 339 | 707 | 181 | (NA) | (NA) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²Includes figures for two bituminous coal mining services establishments.³Includes figures for separately reported central office and related facilities in California in the bituminous coal industry.⁴Not shown since the cost of supplies, purchased fuels and electric energy, contract work, and purchased machinery installed exceeds the value of shipments and receipts plus capital expenditures.⁵For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.⁶Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---------------------------------------|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 14 378 | 8 698 | 232 | 2 953 | 2 495 | 4 131 | 1 120 | 3 011 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING. | 4 003 | 3 222 | - | 575 | 206 | 655 | 363 | 292 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING. | | | | | | | | | | | | |
| 14 | NONMETALLIC MINERALS MINING | 8 641 | 4 879 | 232 | 1 348 | 2 182 | 2 769 | 86 | 2 683 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE. | 2 070 | ³ 1 292 | (³) | 377 | 401 | 544 | 20 | 524 | 2 947 | 5 149 | ⁴ 374 | ⁴ 426 |
| 1441 | SAND AND GRAVEL | 5 113 | ² 2 755 | (³) | 866 | 1 492 | 1 841 | 26 | 1 815 | 10 035 | ⁵ 13 190 | ⁶ 2 572 | (⁵) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Excludes figures for minerals produced and used in the same establishment.⁵Figures for the value of shipments of primary products by establishments classified in other industries are included with those for the value of shipments of primary products by establishments classified in the specified industry. See also footnote 6.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 236 | 195 | 58 | 14 | 40 | 4 | 135 | 9 | 114 | 12 | 2 | 41 |
| | NUMBER OF EMPLOYEES..... | 1 777 | 1 610 | (D) | (D) | 41 | (D) | 1 532 | 424 | 908 | 200 | (D) | 167 |
| | VALUE ADDED IN MINING....\$1,000.. | 24 529 | 24 867 | (D) | (D) | 520 | (D) | 24 008 | 5 779 | 17 001 | 1 228 | (D) | (²) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 43 | 16 | 11 | 10 | 1 | - | 5 | 4 | 1 | - | - | 27 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | 10 | (D) | (D) | - | (D) | (D) | (D) | - | - | 43 |
| | VALUE ADDED IN MINING....\$1,000.. | (D) | (D) | 90 | (D) | (D) | - | (D) | (D) | (D) | - | - | 14 |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 176 | 171 | 43 | 1 | 39 | 3 | 126 | 2 | 113 | 11 | 2 | 5 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 52 | 50 | 3 | - | 3 | - | 45 | 2 | 43 | - | 2 | 2 |
| | NUMBER OF EMPLOYEES..... | 307 | (D) | (D) | - | (D) | - | 285 | (D) | (D) | - | (D) | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 4 243 | (D) | (D) | - | (D) | - | 4 015 | (D) | (D) | - | (D) | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 91 | 90 | 20 | - | 17 | 3 | 70 | - | 59 | 11 | - | 1 |
| | NUMBER OF EMPLOYEES..... | 494 | (D) | (D) | - | (D) | (D) | 477 | - | (D) | (D) | - | (D) |
| | VALUE ADDED IN MINING....\$1,000.. | 7 661 | (D) | (D) | - | (D) | (D) | 7 438 | - | (D) | (D) | - | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceeds capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|---|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERAL OPERATIONS | 294 | 24 | 2 138 | 13 252 | 1 795 | 3 492 | 10 921 | 29 299 | 15 189 | 40 351 | 4 137 | 2 236 | 28 386 |
| | MINERAL INDUSTRIES | 248 | 22 | 1 876 | 11 906 | 1 543 | 3 005 | 9 604 | 24 531 | 14 378 | 34 778 | 4 131 | 2 035 | 23 917 |
| | INCLUDED IN MANUFACTURES ² | 46 | 2 | 262 | 1 346 | 252 | 487 | 1 317 | 4 768 | 811 | 5 573 | 6 | 201 | 4 469 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | CLARK COUNTY, TOTAL | 8 | - | 24 | 180 | 21 | 41 | 153 | 679 | 187 | 776 | 90 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 8 | - | 24 | 180 | 21 | 41 | 153 | 679 | 187 | 776 | 90 | 38 | 955 |
| | GRANT COUNTY, TOTAL | 5 | - | 17 | 129 | 14 | 34 | 105 | 423 | 274 | 627 | 70 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | - | 17 | 129 | 14 | 34 | 105 | 423 | 274 | 627 | 70 | 119 | 446 |
| | GRAYS HARBOR COUNTY, TOTAL | 7 | 1 | 36 | 102 | 15 | 33 | 66 | 218 | 393 | 584 | 27 | 40 | 888 |
| | KING COUNTY, TOTAL | 46 | 5 | 361 | 2 652 | 205 | 404 | 1 365 | 3 886 | 2 822 | 5 516 | 1 192 | 356 | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 30 | 2 | 196 | 1 296 | 158 | 312 | 1 108 | 3 451 | 2 575 | 4 889 | 1 137 | 159 | 1 469 |
| 142 | CRUSHED AND BROKEN STONE | 10 | 2 | 110 | 748 | 85 | 165 | 636 | 1 438 | 754 | 1 996 | 196 | (NA) | (NA) |
| 144 | SAND AND GRAVEL | 11 | - | 72 | 487 | 59 | 117 | 411 | 1 813 | 1 670 | 2 648 | 835 | (NA) | (NA) |
| | PIERCE COUNTY, TOTAL | 16 | 5 | 173 | 1 263 | 161 | 334 | 1 198 | 2 205 | 1 744 | 3 352 | 597 | (NA) | (NA) |
| | SKAGIT COUNTY, TOTAL | 10 | - | 14 | 52 | 12 | 27 | 45 | 450 | 340 | 661 | 129 | 18 | 144 |
| | SNOHOMISH COUNTY, TOTAL | 16 | 1 | 59 | 384 | 51 | 85 | 326 | 804 | 365 | 937 | 232 | 42 | 545 |
| 14 | NONMETALLIC MINERALS MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 144 | SAND AND GRAVEL | 8 | 1 | 44 | 318 | 38 | 62 | 268 | 692 | 334 | 826 | 200 | (NA) | (NA) |
| | SPOKANE COUNTY, TOTAL | 25 | 2 | 119 | 849 | 82 | 176 | 535 | 1 565 | 899 | 2 242 | 222 | 140 | 1 084 |
| 14 | NONMETALLIC MINERALS MINING | 12 | 2 | 77 | 520 | 69 | 151 | 476 | 1 487 | 829 | 2 168 | 148 | 73 | 867 |
| | STEVENS COUNTY, TOTAL | 18 | 4 | 275 | 1 592 | 223 | 409 | 1 161 | 6 216 | 1 858 | 7 870 | 204 | 329 | 6 459 |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 5.

³Excludes data for establishments included in manufactures.

Industry Groups, for Counties: 1963

| | | | | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
|---------------------------------|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| WASHINGTON: TOTAL | 294 | 248 | 46 | 1 | 2 | 11 | 23 | - | - | 3 | 6 | - | - | 9 | 2 | 8 | - | 5 | 9 | 6 | 52 | 10 | 91 | 22 | 5 | 8 | 1 | 2 | 18 | 9 |
| NO EMPLOYEES | 65 | 65 | - | 1 | 1 | 3 | 8 | - | - | 1 | 2 | - | - | 1 | 1 | 4 | - | 1 | 3 | - | 6 | - | 21 | - | 3 | - | - | - | 9 | - |
| 1-4 EMPLOYEES | 145 | 116 | 29 | - | - | 6 | 12 | - | - | 2 | 3 | - | - | 4 | 1 | 2 | - | 1 | 6 | 4 | 26 | 4 | 43 | 14 | 1 | 7 | 1 | 1 | 7 | - |
| 5-9 EMPLOYEES | 39 | 31 | 8 | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | 3 | - | - | 10 | 3 | 15 | 5 | - | - | - | - | 1 | - |
| 10-19 EMPLOYEES | 21 | 14 | 7 | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 6 | 2 | 5 | 3 | - | 1 | - | - | - | 1 | - |
| 20-49 EMPLOYEES | 16 | 14 | 2 | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | 1 | 4 | 1 | 7 | - | - | - | - | 1 | - | - | - |
| 50-99 EMPLOYEES | 5 | 5 | - | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | 2 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 3 | 3 | - | - | - | 1 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - |
| ADAMS COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ASOTIN COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| BENTON COUNTY: TOTAL | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 1 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 1 | - | - | - | - | - | - |
| CHELAN COUNTY: TOTAL | 7 | 7 | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | 1 | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| CLALLAM COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | 2 | - | - | - | - | - | - | - | - |
| CLARK COUNTY: TOTAL | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | 1 | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 8 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 5 | 1 | - | 1 | - | - | - | - | - |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| PIERCE COUNTY, TOTAL | 19 | 16 | 3 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - | 2 | - | 1 | 4 | - | 6 | 2 | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 13 | 11 | 2 | - | - | 1 | - | - | - | - | - | - | - | 1 | - | 1 | - | 1 | - | 3 | 3 | - | 3 | 2 | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | 1 | - | 3 | - | - | - | - | - | - | - |
| SAN JUAN COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| SKAGIT COUNTY, TOTAL | 13 | 10 | 3 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | 1 | 2 | 2 | 2 | 2 | - | - | - | 4 | - |
| 0-19 EMPLOYEES | 13 | 10 | 3 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | 1 | 2 | 2 | 2 | 2 | - | - | - | 4 | - |
| SKAMANIA COUNTY, TOTAL | 3 | 1 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 1 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SNOHOMISH COUNTY, TOTAL | 16 | 16 | - | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 8 | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 15 | 15 | - | - | 1 | 1 | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | 4 | - | 7 | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| SPOKANE COUNTY, TOTAL | 33 | 25 | 8 | - | - | 4 | 5 | - | - | 2 | 2 | - | - | - | - | - | - | - | 1 | 2 | 3 | 2 | 7 | 2 | 1 | 2 | - | - | - | - |
| 0-19 EMPLOYEES | 31 | 23 | 8 | - | - | 4 | 5 | - | - | 2 | 2 | - | - | - | - | - | - | - | 1 | 2 | 2 | 6 | 2 | 1 | 2 | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| STEVENS COUNTY, TOTAL | 19 | 18 | 1 | - | - | 1 | 2 | - | - | 1 | 1 | - | - | - | - | - | - | 1 | 2 | - | 6 | - | 1 | 1 | 1 | - | - | 2 | - | - |
| 0-19 EMPLOYEES | 15 | 14 | 1 | - | - | 1 | 2 | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | 6 | - | 1 | 1 | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - |
| THURSTON COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | 2 | - | - | - | - | - | - | 1 | - |
| WAHIAKUM COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| WALLA WALLA COUNTY, TOTAL | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 2 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 3 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| WHATCOM COUNTY, TOTAL | 7 | 4 | 3 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 1 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 4 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | 1 | - | 1 | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WHITMAN COUNTY, TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| YAKIMA COUNTY, TOTAL | 13 | 8 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 3 | 6 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 8 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | 3 | 6 | 1 | - | - | - | - | - | - |
| OFFSHORE, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | | | | | | | | | | | | | | |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

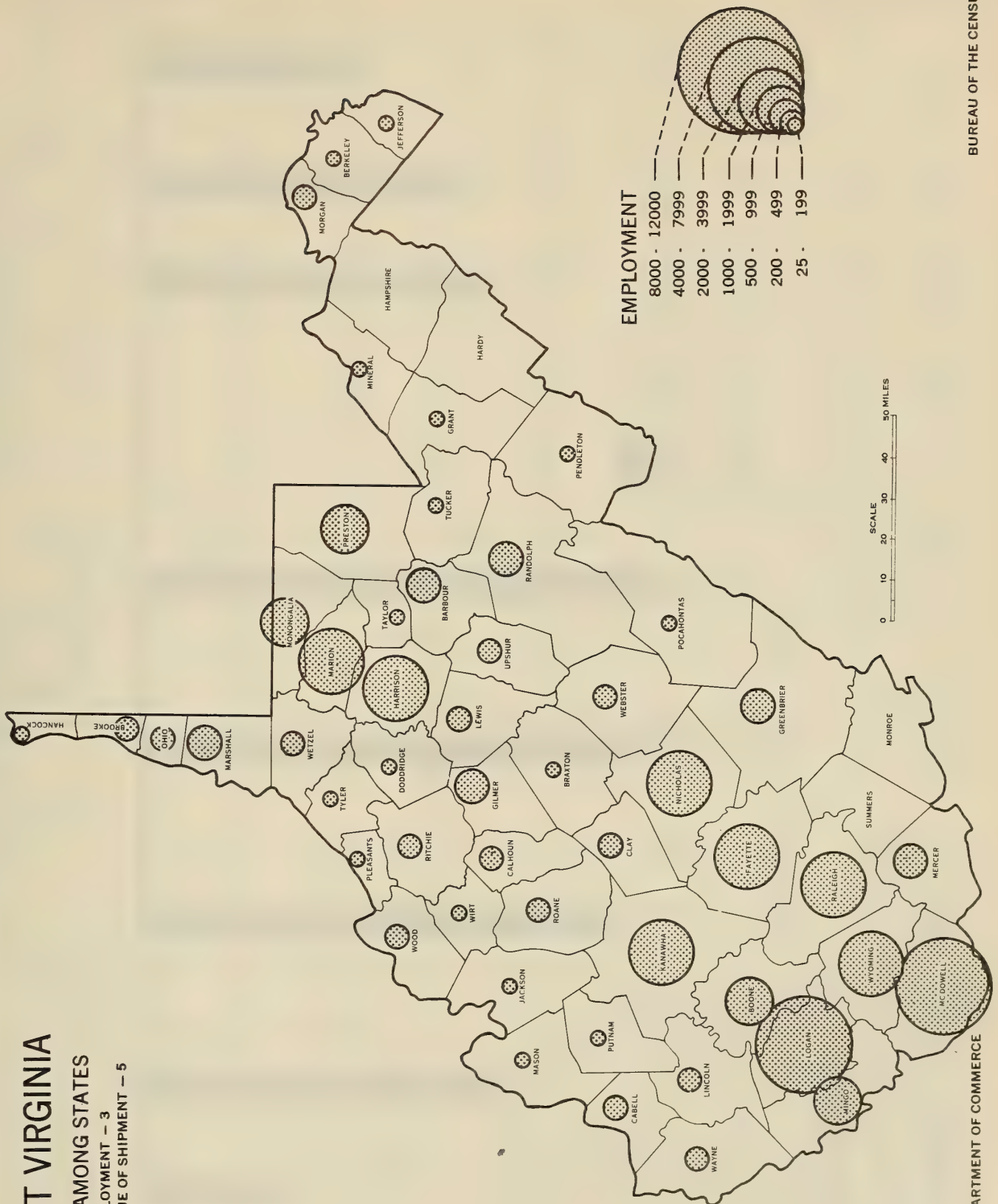
EMPLOYMENT IN MINING BY COUNTY: 1963

WEST VIRGINIA

RANK AMONG STATES

EMPLOYMENT - 3

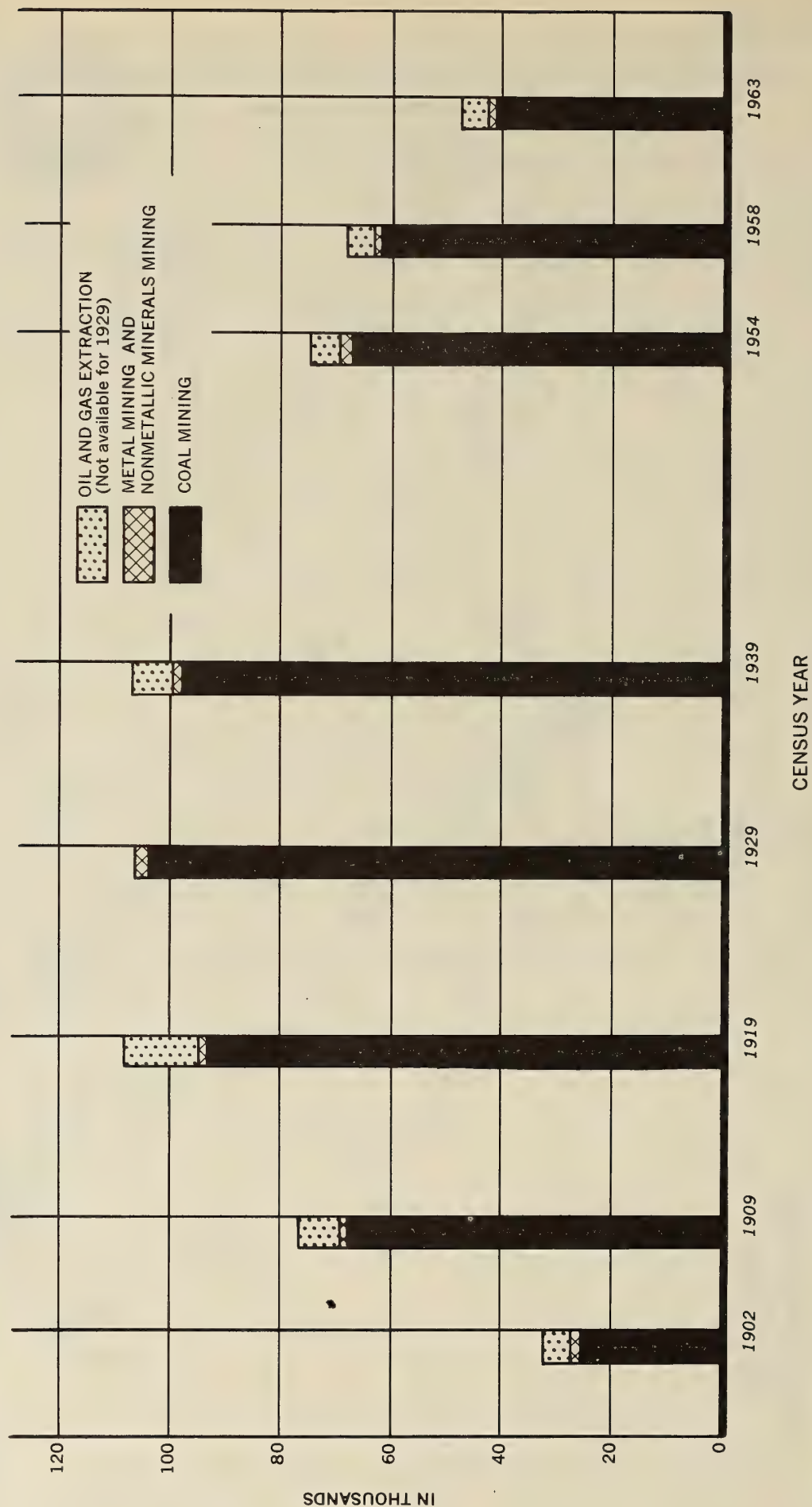
VALUE OF SHIPMENT - 5



EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

WEST VIRGINIA



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|---|----------------------------|--|--|-----------------------------------|--------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| | | | | | | | | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 2 702 | 374 | 47 636 | 277 044 | 42 444 | 79 814 | 238 509 | 596 058 | |
| 1958 | 2 817 | 472 | 68 603 | 334 029 | 60 160 | 100 839 | 282 825 | 606 633 | |
| 1954 | 2 322 | 462 | 74 715 | 307 465 | 68 340 | 114 929 | 272 734 | 513 492 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 2 715 | 376 | 47 769 | 277 793 | 42 577 | 80 081 | 239 258 | 599 405 | |
| 1958 | 2 826 | 474 | 68 715 | 334 601 | 60 272 | 101 060 | 283 397 | 607 943 | |
| 1954 ¹ | 2 339 | 467 | 75 073 | 308 745 | 68 698 | 115 644 | 274 014 | 515 807 | |
| 1939 ² | 21 351 | (NA) | 107 260 | 139 827 | 102 302 | 156 344 | 128 978 | 187 547 | |
| 1919 ⁴ | 1 722 | (NA) | 108 688 | 134 564 | 100 830 | (NA) | 119 597 | 238 077 | |
| 1909 ⁴ | 908 | (NA) | 76 993 | 39 869 | 73 474 | (NA) | 36 027 | 57 845 | |
| 1902 ⁵ | 35 338 | (NA) | 32 681 | 19 948 | 630 053 | (NA) | 17 497 | 34 546 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 1 660 | 338 | 42 982 | 256 621 | 38 598 | 72 060 | 222 255 | 526 512 | |
| 1958 | 1 808 | 431 | 63 553 | 315 814 | 55 855 | 92 630 | 267 958 | 554 150 | |
| 1954 ¹ | 1 425 | 426 | 69 631 | 291 934 | 63 789 | 106 875 | 259 400 | 453 047 | |
| 1939 ⁷ | 3800 | (NA) | 99 900 | 130 748 | 95 788 | 145 328 | 121 531 | 164 566 | |
| 1929 ⁸ | 740 | (NA) | 106 578 | 141 337 | 101 422 | (NA) | 128 906 | 189 093 | |
| 1919 ⁴ | 966 | (NA) | 95 024 | 119 627 | 88 523 | (NA) | 107 176 | 163 366 | |
| 1909 ⁴ | 458 | (NA) | 69 526 | 34 678 | 66 717 | (NA) | 31 628 | 41 821 | |
| 1902 ⁵ | 3839 | (NA) | 27 698 | 16 139 | 25 619 | (NA) | 14 313 | 23 347 | |
| Kind of operation and year | Selected expenses | | | | | Energy used (kwh. equivalent) | | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation ⁹ (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | Value of shipments and receipts ¹⁰ (\$1,000) | Capital expenditures (\$1,000) | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 171 010 | 138 635 | 37 079 | 47 735 | 910 553 | 79 964 | 6 860 | 162 | 2 064 |
| 1958 | 163 152 | 122 885 | 22 946 | 51 493 | 890 770 | 76 339 | 6 922 | 115 | (NA) |
| 1954 | 149 623 | 58 982 | 26 772 | 46 161 | 736 026 | 59 004 | 5 885 | 86 | 1 946 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 11 171 790 | 138 635 | 11 37 079 | 124 7 735 | 914 680 | 12 79 964 | 12 6 860 | 162 | 12 2 064 |
| 1958 | 11 163 456 | 122 885 | 11 22 946 | 125 1 493 | 892 384 | 12 76 339 | 12 6 922 | 115 | (NA) |
| 1954 ¹ | 11 150 663 | 58 982 | 11 26 772 | 124 6 161 | 739 381 | 12 59 004 | 12 5 885 | 86 | 12 1 946 |
| 1939 ² | 34 319 | (NA) | 2 400 | (NA) | 224 266 | (NA) | 5 662 | 55 | 934 |
| 1919 ⁴ | 47 713 | 135 872 | 3 945 | (NA) | 295 607 | (NA) | 14 12 634 | 125 | 704 |
| 1909 ⁴ | 12 972 | 13 894 | 4 577 | (NA) | 76 288 | (NA) | (NA) | (NA) | 417 |
| 1902 ⁵ | 8 593 | (NA) | 5 239 | (NA) | 48 378 | (NA) | (NA) | (NA) | 244 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963 | 11 152 313 359 | (15) | 11 15 654 | 124 1 822 | 763 483 | 12 51 864 | 12 4 199 | 109 | 12 1 603 |
| 1958 | 11 149 363 | 100 547 | 11 15 663 | 124 3 252 | 806 228 | 12 56 747 | 12 5 848 | 64 | (NA) |
| 1954 ¹ | 11 140 276 | 56 880 | 11 19 367 | 124 1 875 | 666 925 | 12 44 520 | 12 5 843 | 60 | 12 1 645 |
| 1939 ⁷ | 31 495 | (NA) | 380 | (NA) | 196 441 | (NA) | 3 650 | 38 | 801 |
| 1929 ⁸ | 34 544 | (NA) | 294 | 8 272 | 223 931 | (NA) | 4 922 | 49 | 671 |
| 1919 ⁴ | 32 317 | - | 406 | (NA) | 196 089 | (NA) | 14 8 923 | 101 | 366 |
| 1909 ⁴ | 6 163 | - | 126 | (NA) | 48 110 | (NA) | (NA) | (NA) | 160 |
| 1902 ⁵ | 2 533 | (NA) | 68 | (NA) | 25 948 | (NA) | (NA) | (NA) | 52 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Excludes data for dimension stone dressing, if any, in conjunction with one sandstone quarry. For "All operations," includes data for one or two gas field hauling operations, with receipts for services amounting to less than \$45 thousand; such operations were not classified in the mineral industries for later years.

³Represents number of mines and quarries, number of natural gas liquids plants, and, for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for sand, gravel, common clay, and shale mining operations and for crushed and broken stone quarries operated as parts of cement and lime establishments. For 1939, the value of products of such establishments (except stone quarries at cement plants) was \$2,503 thousand.

⁵Excludes data for sand, gravel, common clay, shale, and nonproducing operations. Includes data for lime plants producing lime valued at \$182 thousand and for one cement plant.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes data for 3 nonproducing coal mines. See also footnote 2.

⁸Excludes data for one nonproducing establishment.

⁹For years prior to 1958, excludes the cost of natural gas processed at natural gas liquids plants.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, the figures represent net production and exclude this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants but, for 1954, includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹³Includes gas purchased for resale without processing.

¹⁴Excludes purchased electric energy. For "All operations" in 1939, the quantity of purchased electric energy amounted to 10 percent of the total kwh equivalent of energy used, and for "Excluding oil and gas extraction industries" in 1929, to 11 percent.

¹⁵Figures for the cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|---|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 715 | 376 | 47 769 | 277 793 | 42 577 | 80 081 | 239 258 |
| | MINERAL INDUSTRIES | 2 702 | 374 | 47 636 | 277 044 | 42 444 | 79 814 | 238 509 |
| | INCLUDED IN MANUFACTURES | 13 | 2 | ¹ 133 | ¹ 749 | ¹ 133 | 267 | 749 |
| 12 | BITUMINOUS COAL MINING | 1 586 | 318 | 41 553 | 248 939 | 37 438 | 69 709 | 216 458 |
| 1211 | BITUMINOUS COAL | 1 554 | 315 | 41 293 | 247 663 | 37 192 | 69 241 | 215 260 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 32 | 3 | 260 | 1 276 | 246 | 468 | 1 198 |
| 13 | OIL AND GAS EXTRACTION | 1 055 | 38 | 4 787 | 21 172 | 3 979 | 8 021 | 17 003 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 858 | 20 | 3 238 | 13 525 | 2 554 | 5 033 | 10 171 |
| | CRUDE PETROLEUM | 422 | 6 | 1 387 | 5 209 | 1 120 | 2 235 | 4 155 |
| | NATURAL GAS | 436 | 14 | 1 851 | 8 316 | 1 444 | 2 798 | 6 016 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 125 | 13 | 1 059 | 5 027 | 965 | 2 093 | 4 471 |
| 14 | NONMETALLIC MINERALS MINING | 74 | 20 | 1 429 | 7 682 | 1 160 | 2 351 | 5 797 |
| | MINERAL INDUSTRIES | 61 | 18 | 1 296 | 6 933 | 1 027 | 2 084 | 5 048 |
| | INCLUDED IN MANUFACTURES | 13 | 2 | ¹ 133 | ¹ 749 | ¹ 133 | 267 | 749 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY | 37 | 9 | 593 | 2 995 | 496 | 961 | 2 374 |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY | 26 | 9 | 519 | 2 551 | 441 | 834 | 2 000 |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 11 | - | 74 | 444 | 55 | 127 | 374 |
| 144 | SAND AND GRAVEL: MINERAL INDUSTRY | 20 | 8 | 656 | 3 794 | 491 | 1 067 | 2 552 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 16 | 6 | 242 | 1 409 | 213 | 459 | 1 206 |
| | CLAY AND RELATED MINERALS | 5 | 2 | ¹ 86 | ¹ 407 | ¹ 82 | 140 | 393 |

| Code | Industry group and industry | 1963—Continued | | | | 1958 | |
|------|---|---------------------------------------|--|---|--------------------------------------|------------------------------|---------------------------------------|
| | | Value added in mining (\$1,000) | Cost of supplies, etc., and purchased machinery installed (\$1,000) | Value of shipments and receipts (\$1,000) | Capital expenditures (\$1,000) | All employees (number) | Value added in mining (\$1,000) |
| | ALL MINERAL OPERATIONS | 599 405 | ² 395 239 | ¹ 914 680 | (NA) | 68 715 | 607 943 |
| | MINERAL INDUSTRIES | 596 058 | 394 459 | 910 553 | 79 964 | 68 603 | 606 633 |
| | INCLUDED IN MANUFACTURES | 3 347 | ² 780 | ¹ 4 127 | (NA) | ¹ 112 | 1 310 |
| 12 | BITUMINOUS COAL MINING | 506 755 | 281 564 | 737 985 | 50 334 | 62 110 | 537 591 |
| 1211 | BITUMINOUS COAL | 503 435 | 279 869 | 733 409 | 49 895 | 61 634 | 533 574 |
| 1213 | BITUMINOUS COAL MINING SERVICES | 3 320 | 1 695 | 4 576 | 439 | 476 | 4 017 |
| 13 | OIL AND GAS EXTRACTION | 72 893 | 106 404 | 151 197 | 28 100 | 5 162 | 53 793 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS | 50 212 | 34 778 | 58 855 | 26 135 | 3 789 | 39 382 |
| | CRUDE PETROLEUM | 9 658 | 10 175 | 14 348 | 5 485 | 1 204 | 6 148 |
| | NATURAL GAS | 40 554 | 24 603 | 44 507 | 20 650 | 2 585 | 33 234 |
| 1381 | OIL AND GAS FIELD SERVICES: DRILLING OIL AND GAS WELLS | 10 516 | 6 417 | 15 423 | 1 510 | 901 | 5 041 |
| 14 | NONMETALLIC MINERALS MINING | 19 757 | ² 7 271 | ¹ 25 498 | (NA) | 1 443 | 16 559 |
| | MINERAL INDUSTRIES | 16 410 | 6 491 | 21 371 | 1 530 | 1 331 | 15 249 |
| | INCLUDED IN MANUFACTURES | 3 347 | ² 780 | ¹ 4 127 | (NA) | ¹ 112 | 1 310 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY | 7 030 | 3 620 | 10 100 | 550 | 683 | 6 790 |
| | CRUSHED AND BROKEN LIMESTONE: MINERAL SUBINDUSTRY | 6 191 | 3 190 | 8 906 | 475 | 644 | 6 566 |
| | CRUSHED AND BROKEN STONE, N.E.C.: MINERAL SUBINDUSTRY | 839 | 430 | 1 194 | 75 | (NA) | (NA) |
| 144 | SAND AND GRAVEL: MINERAL INDUSTRY | 9 112 | 2 671 | 10 851 | 932 | 620 | 8 312 |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY | 4 314 | 1 482 | 5 287 | 509 | (NA) | (NA) |
| | CLAY AND RELATED MINERALS | 1 746 | ² 352 | ¹ 2 068 | (NA) | ¹ 92 | 586 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES . | 394 459 | 171 010 | 138 635 | 37 079 | 47 735 | 79 964 | 19 528 | 60 436 | (x) | (x) | (x) | (x) |
| 12 | BITUMINOUS COAL MINING . . . | 281 564 | 150 711 | 75 668 | 14 730 | 40 455 | 50 334 | 2 099 | 48 235 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL. | 279 869 | 149 598 | 75 668 | 14 593 | 40 010 | 49 895 | 2 099 | 47 796 | 132 213 | 644 543 | - | - |
| 13 | OIL AND GAS EXTRACTION . . . | 106 404 | 379 066 | (³) | 21 425 | 5 913 | 28 100 | 17 423 | 10 677 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATU- RAL GAS | 34 778 | 9 928 | - | 20 332 | 4 518 | 26 135 | 17 416 | 8 719 | (x) | 58 102 | (x) | 856 |
| | CRUDE PETROLEUM. | 10 175 | 3 697 | - | 5 252 | 1 226 | 5 485 | 3 957 | 1 528 | (D) | (D) | (D) | (D) |
| | NATURAL GAS. | 24 603 | 6 231 | - | 15 080 | 3 292 | 20 650 | 13 459 | 7 191 | 4167 313 | 43 591 | 415 666 | 3 620 |
| | OIL AND GAS FIELD SERV- ICES: DRILLING OIL AND GAS WELLS | 6 417 | 4 556 | - | 803 | 1 058 | 1 510 | 7 | 1 503 | (x) | 513 965 | (x) | (⁵) |
| 14 | NONMETALLIC MINERALS MINING. | 6 491 | 34 200 | (³) | 924 | 1 367 | 1 530 | 6 | 1 524 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . | 3 620 | 2 104 | - | 900 | 616 | 550 | 5 | 545 | 5 504 | 10 100 | 61 162 | 61 867 |
| | CRUSHED AND BROKEN LIMESTONE | 3 190 | 1 820 | - | 862 | 508 | 475 | 5 | 470 | 76 180 | 8 906 | (⁷) | 61 866 |
| 1441 | SAND AND GRAVEL. | 2 671 | 31 941 | (³) | 23 | 707 | 932 | 1 | 931 | 5 256 | 810 907 | 9120 | (⁸) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. . . | 1 482 | 31 096 | (³) | 23 | 363 | 509 | 1 | 508 | 4 094 | (D) | (D) | (D) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero, (D) Withheld to avoid disclosing figures for individual companies, (NA) Not available, (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents millions of cubic feet of natural gas shipped.⁵Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.⁷Figures for shipments of primary products by establishments classified in other industries or subindustries are included with those for shipments of primary products by establishments classified in the specified industry or subindustry. See also footnote 6.⁸Figures for shipments of primary products of establishments classified in other industries are included with those for establishments classified in the specified industry.⁹Represents gross shipments. See also footnote 9.⁹Excludes figures for minerals produced and used in the same establishment.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | Non-producing establishments | |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|----------------|---------------------------------------|------------------------------|--|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | | Separately operated preparation plants |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| 12 | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 2 497 | 2 330 | 1 976 | 1 177 | 56 | 743 | 285 | 176 | 60 | 49 | 69 | 167 |
| | NUMBER OF EMPLOYEES..... | (D) | 45 185 | 15 312 | 10 807 | 554 | 3 951 | 29 019 | 23 914 | 1 073 | 4 032 | 854 | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | 584 102 | 162 908 | 92 069 | 7 024 | 63 815 | 403 803 | 327 406 | 13 804 | 62 593 | 17 391 | (D) |
| 13 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 1 554 | 1 545 | 1 269 | 1 177 | 50 | 42 | 232 | 173 | 17 | 42 | 44 | 9 |
| | NUMBER OF EMPLOYEES..... | 40 746 | (D) | (D) | 10 807 | (D) | 927 | 27 853 | 23 795 | 217 | 3 841 | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 506 747 | (D) | (D) | 92 069 | (D) | 12 873 | 388 501 | 326 234 | 3 403 | 58 864 | (D) | (D) |
| 142 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 882 | 726 | 701 | - | - | 701 | - | - | - | - | 25 | 156 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | 3 024 | - | - | 3 024 | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | 50 942 | - | - | 50 942 | - | - | - | - | (D) | (D) |
| 144 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 37 | 37 | 4 | - | 4 | - | 33 | 3 | 29 | 1 | - | - |
| | NUMBER OF EMPLOYEES..... | 582 | 582 | (D) | - | (D) | - | (D) | 119 | (D) | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 7 030 | 7 030 | (D) | - | (D) | - | (D) | 1 172 | (D) | (D) | - | - |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 20 | 20 | 1 | - | 1 | - | 19 | - | 13 | 6 | - | - |
| | NUMBER OF EMPLOYEES..... | 568 | 568 | (D) | - | (D) | - | (D) | - | (D) | (D) | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 728 | 8 728 | (D) | - | (D) | - | (D) | - | (D) | (D) | - | - |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|-----------|---|-----------------------------|--|-------------------|----------------------|--|----------------------|--------------------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total (number) | With 20 employ-ees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS | 2 715 | 376 | 47 769 | 277 793 | 42 577 | 80 081 | 239 258 | 599 405 | 395 239 | 914 680 | (NA) | 68 715 | 607 943 |
| | MINERAL INDUSTRIES | 2 702 | 374 | 47 636 | 277 044 | 42 444 | 79 814 | 238 509 | 596 058 | 394 459 | 910 553 | 79 964 | 68 603 | 606 633 |
| | INCLUDED IN MANUFACTURES ² | 13 | 2 | 133 | 749 | 133 | 267 | 749 | 3 347 | 780 | 4 127 | (NA) | 112 | 1 310 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BARBOUR COUNTY, TOTAL | 54 | 8 | 852 | 4 314 | 767 | 1 359 | 3 707 | 9 125 | 5 160 | 13 337 | 948 | 1 109 | (NA) |
| 12 | BITUMINOUS COAL MINING | 42 | 8 | 830 | 4 199 | 745 | 1 322 | 3 602 | 8 477 | 4 930 | 12 872 | 535 | 1 083 | 10 342 |
| | BOONE COUNTY, TOTAL | 88 | 10 | 1 897 | 11 665 | 1 782 | 3 314 | 10 942 | 25 723 | 11 762 | 33 875 | 3 610 | 2 468 | (NA) |
| 12 | BITUMINOUS COAL MINING | 53 | 9 | 1 717 | 10 771 | 1 612 | 2 974 | 10 124 | 23 688 | 10 523 | 31 677 | 2 534 | 2 441 | 21 154 |
| 13 | OIL AND GAS EXTRACTION | 35 | 1 | 180 | 894 | 170 | 340 | 818 | 2 035 | 1 239 | 2 198 | 1 076 | 57 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 25 | 1 | 156 | 767 | 148 | 285 | 709 | 1 795 | 1 156 | 1 913 | 1 038 | 56 | (NA) |
| | BRAXTON COUNTY, TOTAL | 26 | 1 | 143 | 664 | 128 | 251 | 578 | 1 067 | 665 | 1 576 | 156 | 202 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 22 | - | 58 | 204 | 44 | 87 | 122 | 403 | 378 | 638 | 143 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 18 | - | 45 | 166 | 31 | 59 | 86 | 352 | 334 | 548 | 138 | (NA) | (NA) |
| | BROOKE COUNTY, TOTAL | 16 | 6 | 265 | 1 347 | 217 | 401 | 1 088 | 2 698 | 1 334 | 3 739 | 293 | 504 | (NA) |
| 12 | BITUMINOUS COAL MINING | 12 | 6 | 255 | 1 313 | 210 | 386 | 1 068 | 2 652 | 1 294 | 3 682 | 264 | 470 | 2 892 |
| 1211 | BITUMINOUS COAL | 12 | 6 | 255 | 1 313 | 210 | 386 | 1 068 | 2 652 | 1 294 | 3 682 | 264 | (NA) | (NA) |
| | CABELL COUNTY, TOTAL | 45 | 3 | 277 | 1 878 | 152 | 326 | 635 | 1 308 | 1 243 | 1 748 | 803 | 185 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 31 | 1 | 71 | 293 | 66 | 142 | 269 | 535 | 861 | 760 | 636 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING | 5 | 2 | 64 | 314 | 55 | 127 | 244 | 574 | 339 | 791 | 122 | (NA) | (NA) |
| | CALHOUN COUNTY, TOTAL | 164 | 1 | 258 | 650 | 201 | 421 | 539 | 2 145 | 1 866 | 3 001 | 1 010 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 164 | 1 | 258 | 650 | 201 | 421 | 539 | 2 145 | 1 866 | 3 001 | 1 010 | 267 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 146 | 1 | 213 | 533 | 164 | 345 | 426 | 1 896 | 1 725 | 2 671 | 950 | 227 | (NA) |
| | CLAY COUNTY, TOTAL | 46 | 4 | 420 | 2 164 | 366 | 663 | 1 784 | 3 695 | 1 639 | 4 941 | 393 | 733 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 28 | - | 52 | 203 | 43 | 77 | 153 | 888 | 528 | 1 038 | 378 | (NA) | (NA) |
| | DODDRIDGE COUNTY, TOTAL | 92 | - | 194 | 686 | 156 | 312 | 554 | 2 856 | 4 268 | 4 104 | 3 020 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 92 | - | 194 | 686 | 156 | 312 | 554 | 2 856 | 4 268 | 4 104 | 3 020 | 113 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 69 | - | 110 | 386 | 79 | 157 | 278 | 2 182 | 3 838 | 3 150 | 2 870 | (NA) | (NA) |
| | FAYETTE COUNTY, TOTAL | 174 | 20 | 2 377 | 12 922 | 2 117 | 3 746 | 11 235 | 23 062 | 16 627 | 37 636 | 2 053 | 3 668 | (NA) |
| 12 | BITUMINOUS COAL MINING | 168 | 20 | 2 326 | 12 568 | 2 114 | 3 740 | 11 219 | 23 106 | 16 492 | 37 552 | 2 046 | 3 631 | 28 150 |
| | GILMER COUNTY, TOTAL | 92 | 6 | 570 | 2 922 | 516 | 1 039 | 2 656 | 6 217 | 4 854 | 9 809 | 1 262 | 337 | (NA) |
| 12 | BITUMINOUS COAL MINING | 14 | 3 | 326 | 1 879 | 310 | 590 | 1 775 | 3 206 | 2 696 | 5 301 | 601 | 183 | 1 774 |
| 13 | OIL AND GAS EXTRACTION | 78 | 3 | 244 | 1 043 | 206 | 449 | 881 | 3 011 | 2 158 | 4 508 | 661 | 154 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 51 | 2 | 135 | 514 | 115 | 249 | 442 | 1 770 | 845 | 2 065 | 550 | (NA) | (NA) |
| | GREENBRIER COUNTY, TOTAL | 79 | 8 | 596 | 2 147 | 522 | 874 | 1 792 | 4 155 | 3 132 | 7 020 | 267 | 907 | (NA) |
| 12 | BITUMINOUS COAL MINING | 73 | 6 | 485 | 1 625 | 435 | 692 | 1 442 | 3 064 | 2 572 | 5 369 | 267 | 776 | 5 052 |
| | HARRISON COUNTY, TOTAL | 150 | 25 | 2 283 | 12 228 | 2 032 | 3 662 | 10 485 | 27 494 | 14 686 | 38 848 | 3 332 | 2 748 | (NA) |
| 12 | BITUMINOUS COAL MINING | 97 | 23 | 2 039 | 10 904 | 1 834 | 3 263 | 9 520 | 25 155 | 13 420 | 35 562 | 3 013 | 2 566 | 23 879 |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 41 | 2 | 180 | 860 | 158 | 313 | 762 | 1 844 | 970 | 2 540 | 274 | (NA) | (NA) |
| | JACKSON COUNTY, TOTAL | 36 | - | 58 | 221 | 50 | 104 | 182 | 621 | 224 | 613 | 232 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 36 | - | 58 | 221 | 50 | 104 | 182 | 621 | 224 | 613 | 232 | 125 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 29 | - | 46 | 178 | 39 | 80 | 148 | 603 | 215 | 587 | 231 | (NA) | (NA) |
| | KANAWHA COUNTY, TOTAL | 195 | 31 | 3 714 | 22 266 | 3 270 | 6 040 | 19 142 | 50 612 | 40 226 | 82 523 | 8 315 | 4 556 | (NA) |
| 12 | BITUMINOUS COAL MINING | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 1211 | BITUMINOUS COAL | 115 | 24 | 3 166 | 19 176 | 2 866 | 5 205 | 17 061 | 41 075 | 25 689 | 61 462 | 5 302 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 74 | 7 | 455 | 2 499 | 380 | 776 | 1 996 | 9 413 | 14 455 | 20 876 | 2 992 | 449 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 53 | 4 | 256 | 1 257 | 208 | 404 | 957 | 5 830 | 2 843 | 5 879 | 2 794 | 293 | (NA) |
| 132 | NATURAL GAS LIQUIDS | 6 | 2 | 106 | 673 | 96 | 190 | 595 | 2 370 | 10 956 | 13 219 | 107 | 131 | 1 724 |
| 138 | OIL AND GAS FIELD SERVICES | 15 | 1 | 93 | 569 | 76 | 182 | 444 | 1 213 | 656 | 1 778 | 91 | (NA) | (NA) |
| | LEWIS COUNTY, TOTAL | 78 | 4 | 366 | 1 805 | 322 | 680 | 1 595 | 5 041 | 2 846 | 6 411 | 1 476 | 359 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 72 | 4 | 338 | 1 712 | 299 | 643 | 1 510 | 4 945 | 2 639 | 6 132 | 1 452 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS . . | 43 | 1 | 114 | 548 | 92 | 202 | 448 | 2 631 | 1 188 | 2 780 | 1 039 | 107 | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | LINCOLN COUNTY, TOTAL | 61 | 3 | 229 | 921 | 189 | 343 | 696 | 3 303 | 1 650 | 4 540 | 413 | 281 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 56 | 2 | 188 | 835 | 152 | 296 | 624 | 3 118 | 1 505 | 4 264 | 359 | 259 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 46 | 2 | 154 | 704 | 121 | 231 | 506 | 2 651 | 1 432 | 3 993 | 290 | 196 | (NA) |
| | LOGAN COUNTY, TOTAL | 77 | 24 | 4 790 | 34 412 | 4 127 | 8 036 | 28 231 | 61 179 | 28 712 | 83 970 | 5 921 | 8 312 | (NA) |
| 12 | BITUMINOUS COAL MINING | 50 | 24 | 4 548 | 32 379 | 4 086 | 7 947 | 28 050 | 59 548 | 28 012 | 81 975 | 5 585 | 8 050 | 66 298 |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 20 | - | 40 | 192 | 31 | 60 | 132 | 1 461 | 585 | 1 775 | 271 | 127 | (NA) |
| | MCDOWELL COUNTY, TOTAL | 208 | 33 | 5 600 | 34 991 | 5 063 | 9 425 | 29 849 | 79 983 | 59 225 | 132 603 | 6 605 | 9 264 | (NA) |
| 12 | BITUMINOUS COAL MINING | 200 | 33 | 5 575 | 34 873 | 5 040 | 9 372 | 29 752 | 78 864 | 58 584 | 131 711 | 5 737 | 9 230 | 89 521 |
| 13 | OIL AND GAS EXTRACTION | 8 | - | 25 | 118 | 23 | 53 | 97 | 1 119 | 641 | 892 | 868 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 4 | - | 6 | 34 | 5 | 7 | 17 | 1 028 | 620 | 784 | 864 | (NA) | (NA) |
| | MARION COUNTY, TOTAL | 48 | 9 | 2 410 | 16 612 | 2 039 | 3 780 | 13 385 | 38 264 | 14 363 | 48 730 | 3 897 | 3 811 | (NA) |
| 12 | BITUMINOUS COAL MINING | 25 | 8 | 2 223 | 15 614 | 1 951 | 3 603 | 12 935 | 37 813 | 14 016 | 48 049 | 3 780 | 3 709 | 43 806 |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 20 | 1 | 96 | 488 | 83 | 167 | 428 | 424 | 298 | 609 | 113 | (NA) | (NA) |
| | MARSHALL COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 | OIL AND GAS EXTRACTION | 15 | - | 48 | 253 | 42 | 83 | 215 | 523 | 267 | 744 | 46 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 8 | - | 33 | 183 | 30 | 58 | 160 | 406 | 233 | 606 | 33 | (NA) | (NA) |
| | MASON COUNTY, TOTAL | 14 | 3 | 152 | 701 | 126 | 255 | 559 | 922 | 756 | 1 556 | 122 | 191 | 792 |
| | MERCER COUNTY, TOTAL | 41 | 5 | 551 | 3 143 | 505 | 911 | 2 777 | 6 157 | 4 462 | 10 259 | 360 | 844 | 4 564 |
| 12 | BITUMINOUS COAL MINING | 34 | 5 | 520 | 2 710 | 499 | 898 | 2 581 | 5 627 | 4 250 | 9 580 | 297 | 829 | 4 437 |
| | MINERAL COUNTY, TOTAL | 13 | 1 | 110 | 408 | 108 | 239 | 402 | 414 | 242 | 630 | 26 | 197 | (NA) |
| | MINGO COUNTY, TOTAL | 108 | 14 | 1 603 | 9 510 | 1 468 | 2 733 | 8 474 | 19 388 | 9 272 | 26 999 | 1 661 | 2 638 | (NA) |
| 12 | BITUMINOUS COAL MINING | 74 | 14 | 1 512 | 9 138 | 1 394 | 2 593 | 8 189 | 17 557 | 8 335 | 24 532 | 1 360 | 2 451 | 24 316 |
| 1211 | BITUMINOUS COAL | 74 | 14 | 1 512 | 9 138 | 1 394 | 2 593 | 8 189 | 17 557 | 8 335 | 24 532 | 1 360 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 26 | - | 58 | 210 | 45 | 75 | 140 | 1 619 | 861 | 2 198 | 282 | 78 | (NA) |
| | MONONGALIA COUNTY, TOTAL | 82 | 14 | 1 666 | 11 333 | 1 482 | 3 104 | 10 122 | 30 022 | 13 551 | 41 928 | 1 645 | 2 704 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 3 | 3 | 139 | 579 | 127 | 224 | 546 | 1 138 | 613 | 1 605 | 146 | (NA) | (NA) |
| | NICHOLAS COUNTY, TOTAL | 100 | 22 | 2 424 | 13 104 | 2 288 | 4 322 | 11 823 | 25 338 | 15 450 | 34 488 | 6 300 | 3 042 | (NA) |
| 12 | BITUMINOUS COAL MINING | 86 | 22 | 2 400 | 13 007 | 2 266 | 4 278 | 11 736 | 25 232 | 15 231 | 34 257 | 6 206 | 2 956 | 22 150 |
| | PLEASANTS COUNTY, TOTAL | 42 | - | 37 | 97 | 24 | 47 | 72 | 1 035 | 1 566 | 1 216 | 1 385 | 62 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 36 | - | 27 | 65 | 16 | 31 | 45 | 958 | 1 537 | 1 120 | 1 375 | (NA) | (NA) |
| | POCAHONTAS COUNTY, TOTAL | 8 | 1 | 55 | 211 | 54 | 106 | 208 | 401 | 824 | 666 | 559 | 383 | (NA) |
| | PRESTON COUNTY, TOTAL | 113 | 18 | 1 463 | 5 585 | 1 394 | 2 441 | 5 361 | 11 378 | 7 850 | 16 375 | 2 853 | 1 553 | (NA) |
| 12 | BITUMINOUS COAL MINING | 101 | 18 | 1 422 | 5 347 | 1 358 | 2 366 | 5 147 | 10 503 | 6 455 | 15 200 | 1 758 | 1 495 | 6 876 |
| 13 | OIL AND GAS EXTRACTION | 9 | - | 19 | 121 | 18 | 37 | 115 | 594 | 1 265 | 780 | 1 079 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 18 | 114 | 17 | 36 | 111 | 521 | 1 163 | 653 | 1 031 | (NA) | (NA) |
| | PUTNAM COUNTY, TOTAL | 29 | 2 | 101 | 355 | 97 | 165 | 339 | 1 124 | 434 | 1 048 | 510 | 183 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 19 | 2 | 74 | 294 | 70 | 125 | 278 | 952 | 297 | 752 | 497 | 148 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | 2 | 67 | 248 | 63 | 111 | 232 | 851 | 272 | 626 | 497 | 136 | (NA) |
| | RALEIGH COUNTY, TOTAL | 136 | 26 | 3 060 | 18 033 | 2 789 | 5 248 | 16 383 | 33 767 | 13 771 | 44 658 | 2 880 | 5 721 | (NA) |
| 12 | BITUMINOUS COAL MINING | 122 | 26 | 2 988 | 17 516 | 2 766 | 5 198 | 16 283 | 33 135 | 13 455 | 43 995 | 2 595 | 5 639 | 41 193 |
| | RANDOLPH COUNTY, TOTAL | 38 | 10 | 597 | 2 397 | 557 | 1 015 | 2 225 | 4 507 | 1 755 | 5 935 | 327 | 765 | (NA) |
| 12 | BITUMINOUS COAL MINING | 32 | 9 | 544 | 2 157 | 512 | 932 | 2 035 | 3 933 | 1 454 | 5 078 | 309 | 713 | 4 007 |
| 1211 | BITUMINOUS COAL | 32 | 9 | 544 | 2 157 | 512 | 932 | 2 035 | 3 933 | 1 454 | 5 078 | 309 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|--------------------------------------|-----------------------------|---------------------------|---------------|---------|--|-----------|--------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| 13 | RITCHIE COUNTY, TOTAL | 178 | 2 | 343 | 1 038 | 292 | 607 | 912 | 2 906 | 3 467 | 4 630 | 1 743 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 178 | 2 | 343 | 1 038 | 292 | 607 | 912 | 2 906 | 3 467 | 4 630 | 1 743 | 396 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 138 | 2 | 206 | 536 | 169 | 344 | 440 | 1 734 | 2 537 | 2 692 | 1 579 | 306 | (NA) |
| 13 | ROANE COUNTY, TOTAL | 92 | 1 | 247 | 811 | 214 | 419 | 702 | 2 591 | 1 700 | 3 224 | 1 067 | (NA) | (NA) |
| 131 | OIL AND GAS EXTRACTION | 92 | 1 | 247 | 811 | 214 | 419 | 702 | 2 591 | 1 700 | 3 224 | 1 067 | 156 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 71 | 1 | 185 | 604 | 155 | 298 | 508 | 2 065 | 1 246 | 2 352 | 959 | 133 | (NA) |
| 12 | TAYLOR COUNTY, TOTAL | 27 | 1 | 142 | 359 | 130 | 187 | 325 | 696 | 319 | 905 | 110 | 171 | (NA) |
| 1211 | BITUMINOUS COAL MINING | 24 | 1 | 142 | 359 | 130 | 187 | 325 | 657 | 299 | 871 | 85 | 135 | 756 |
| | BITUMINOUS COAL. | 24 | 1 | 142 | 359 | 130 | 187 | 325 | 657 | 299 | 871 | 85 | (NA) | (NA) |
| | TUCKER COUNTY, TOTAL | 6 | - | 36 | 176 | 29 | 58 | 134 | 564 | 205 | 746 | 23 | 43 | (NA) |
| | TYLER COUNTY, TOTAL. | 42 | 1 | 93 | 312 | 59 | 110 | 226 | 1 966 | 443 | 2 169 | 240 | 177 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 42 | 1 | 77 | 283 | 59 | 110 | 226 | 1 966 | 443 | 2 169 | 240 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 36 | 1 | 69 | 254 | 51 | 96 | 198 | 1 938 | 284 | 1 992 | 230 | (NA) | (NA) |
| | UPSHUR COUNTY, TOTAL | 53 | 6 | 490 | 2 450 | 452 | 902 | 2 285 | 5 288 | 2 956 | 7 282 | 962 | 665 | (NA) |
| 12 | BITUMINOUS COAL MINING | 21 | 4 | 317 | 1 548 | 297 | 553 | 1 479 | 2 849 | 1 007 | 3 672 | 184 | 569 | 3 966 |
| 1211 | BITUMINOUS COAL. | 21 | 4 | 317 | 1 548 | 297 | 553 | 1 479 | 2 849 | 1 007 | 3 672 | 184 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 32 | 2 | 173 | 902 | 155 | 349 | 806 | 2 439 | 1 949 | 3 610 | 778 | 96 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 20 | - | 41 | 185 | 32 | 64 | 161 | 815 | 907 | 1 062 | 660 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 12 | 2 | 132 | 717 | 123 | 285 | 645 | 1 624 | 1 042 | 2 548 | 118 | (NA) | (NA) |
| | WAYNE COUNTY, TOTAL. | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 33 | 2 | 123 | 529 | 100 | 200 | 409 | 2 037 | 1 630 | 2 712 | 955 | 130 | (NA) |
| | WEBSTER COUNTY, TOTAL. | 30 | 8 | 380 | 1 776 | 343 | 588 | 1 534 | 3 547 | 2 205 | 5 263 | 489 | 601 | (NA) |
| 12 | BITUMINOUS COAL MINING | 27 | 8 | 368 | 1 715 | 332 | 562 | 1 483 | 3 464 | 2 162 | 5 141 | 485 | 592 | 3 431 |
| 1211 | BITUMINOUS COAL. | 27 | 8 | 368 | 1 715 | 332 | 562 | 1 483 | 3 464 | 2 162 | 5 141 | 485 | (NA) | (NA) |
| | WETZEL COUNTY, TOTAL | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 28 | 2 | 119 | 541 | 103 | 196 | 463 | 704 | 322 | 970 | 56 | (NA) | (NA) |
| | WOOD COUNTY, TOTAL | 69 | 2 | 224 | 1 196 | 135 | 265 | 731 | 3 198 | 3 025 | 4 145 | 2 078 | 174 | (NA) |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 57 | 1 | 93 | 331 | 68 | 134 | 261 | 1 389 | 2 421 | 1 817 | 1 993 | (NA) | (NA) |
| | WYOMING COUNTY, TOTAL. | 79 | 20 | 3 931 | 24 536 | 3 697 | 7 002 | 22 649 | 52 927 | 22 947 | 69 436 | 6 438 | 5 044 | (NA) |
| 12 | BITUMINOUS COAL MINING | 64 | 19 | 3 882 | 24 280 | 3 659 | 6 932 | 22 492 | 50 484 | 22 495 | 66 837 | 6 142 | 4 870 | 49 276 |
| 13 | OIL AND GAS EXTRACTION | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 11 | 1 | 44 | 223 | 34 | 58 | 129 | 2 270 | 388 | 2 371 | 287 | 126 | (NA) |
| | UNDISTRIBUTED, TOTAL | 51 | 2 | 478 | 2 499 | 280 | 568 | 1 368 | 6 237 | 1 733 | 6 677 | 1 293 | (NA) | (NA) |
| 13 | OIL AND GAS EXTRACTION | 51 | 2 | 478 | 2 499 | 280 | 568 | 1 368 | 6 237 | 1 733 | 6 677 | 1 293 | 396 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 31 | 1 | 325 | 1 582 | 138 | 255 | 625 | 4 819 | 788 | 4 557 | 1 050 | 231 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 20 | 1 | 153 | 917 | 142 | 313 | 743 | 1 418 | 945 | 2 120 | 243 | 165 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

See footnotes at end of table.

Industry Groups, for Counties: 1963—Continued

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| RALEIGH COUNTY, TOTAL | 137 | 136 | 1 | - | - | - | - | - | - | - | - | - | - | 121 | 1 | 7 | - | 4 | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 111 | 110 | 1 | - | - | - | - | - | - | - | - | - | - | 95 | 1 | 7 | - | 4 | - | - | 2 | - | 1 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 16 | 16 | - | - | - | - | - | - | - | - | - | - | - | 16 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 9 | 9 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| RANDOLPH COUNTY, TOTAL | 38 | 38 | - | - | - | - | - | - | - | - | - | - | - | 32 | - | 3 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 28 | 28 | - | - | - | - | - | - | - | - | - | - | - | 23 | - | 3 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 10 | 10 | - | - | - | - | - | - | - | - | - | - | - | 9 | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| RITCHIE COUNTY, TOTAL | 178 | 178 | - | - | - | - | - | - | - | - | - | - | - | - | - | 138 | 2 | 38 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 176 | 176 | - | - | - | - | - | - | - | - | - | - | - | - | - | 136 | 2 | 38 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ROANE COUNTY, TOTAL | 92 | 92 | - | - | - | - | - | - | - | - | - | - | - | - | - | 71 | 3 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 91 | 91 | - | - | - | - | - | - | - | - | - | - | - | - | - | 70 | 3 | 18 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| SUMMERS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TAYLOR COUNTY, TOTAL | 27 | 27 | - | - | - | - | - | - | - | - | - | - | - | 24 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 26 | 26 | - | - | - | - | - | - | - | - | - | - | - | 23 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| TUCKER COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | - | 2 | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - |
| TYLER COUNTY, TOTAL | 42 | 42 | - | - | - | - | - | - | - | - | - | - | - | - | - | 36 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 41 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | 35 | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UPSHUR COUNTY, TOTAL | 53 | 53 | - | - | - | - | - | - | - | - | - | - | - | 21 | - | 20 | - | 12 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 47 | 47 | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 20 | - | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WAYNE COUNTY, TOTAL | 47 | 46 | 1 | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 33 | 1 | 7 | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 43 | 42 | 1 | - | - | - | - | - | - | - | - | - | - | 3 | 1 | 31 | - | 7 | - | - | - | - | - | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WEBSTER COUNTY, TOTAL | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | 27 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | 19 | - | 2 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WETZEL COUNTY, TOTAL | 37 | 37 | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 | 4 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 33 | 33 | - | - | - | - | - | - | - | - | - | - | - | - | - | 26 | 2 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| WIRT COUNTY, TOTAL | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 22 | 22 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| WOOD COUNTY, TOTAL | 69 | 69 | - | - | - | - | - | - | - | - | - | - | - | - | - | 57 | - | 9 | - | - | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 67 | 67 | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 | - | 9 | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| WYOMING COUNTY, TOTAL | 80 | 79 | 1 | - | - | - | - | - | - | - | - | - | - | 63 | 1 | 11 | - | 2 | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 60 | 59 | 1 | - | - | - | - | - | - | - | - | - | - | 44 | 1 | 10 | - | 2 | - | - | - | - | 2 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | 6 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 51 | 51 | - | - | - | - | - | - | - | - | - | - | - | - | - | 31 | - | 20 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 49 | 49 | - | - | - | - | - | - | - | - | - | - | - | - | - | 30 | - | 19 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

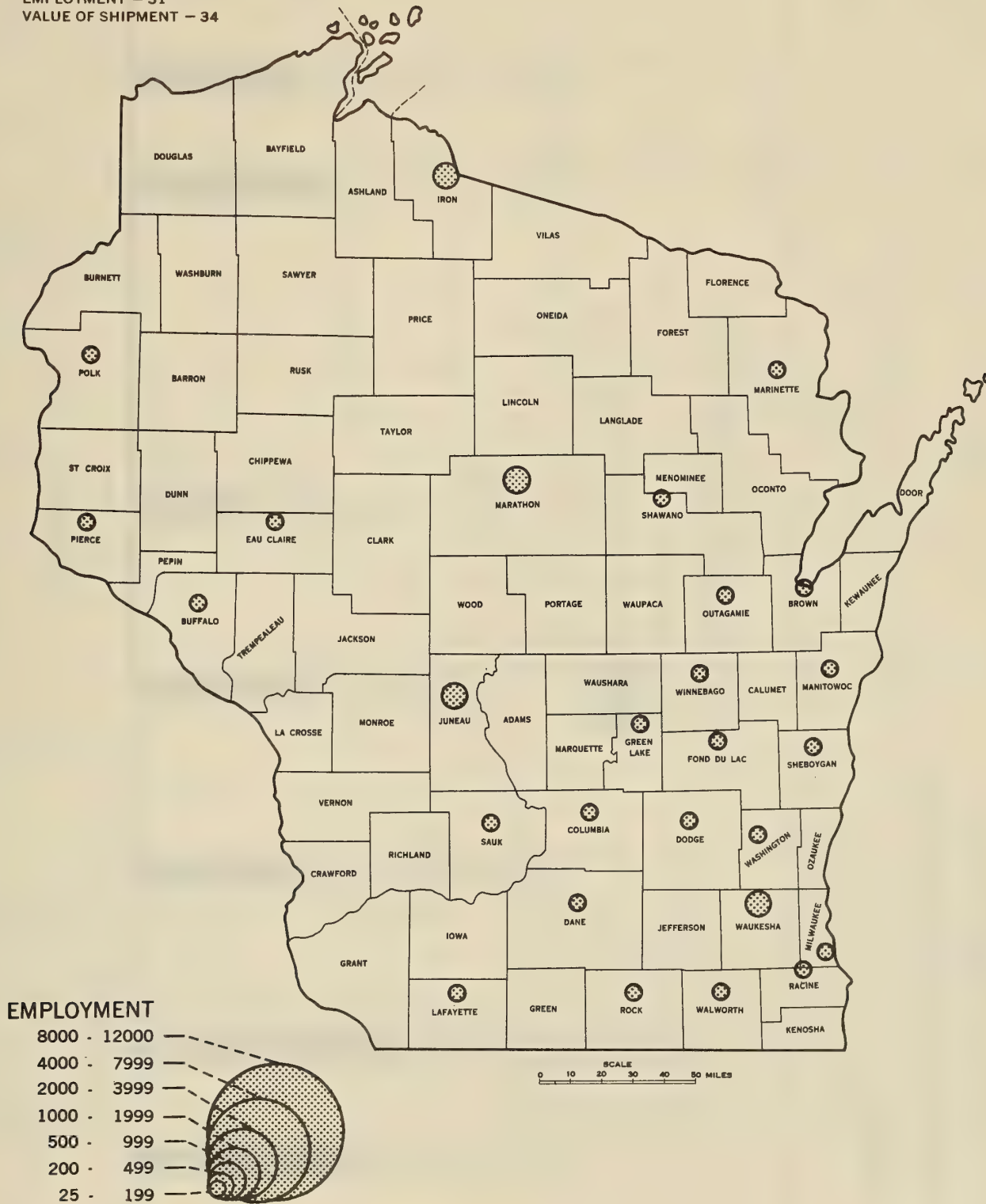
EMPLOYMENT IN MINING BY COUNTY: 1963

WISCONSIN

RANK AMONG STATES

EMPLOYMENT - 31

VALUE OF SHIPMENT - 34



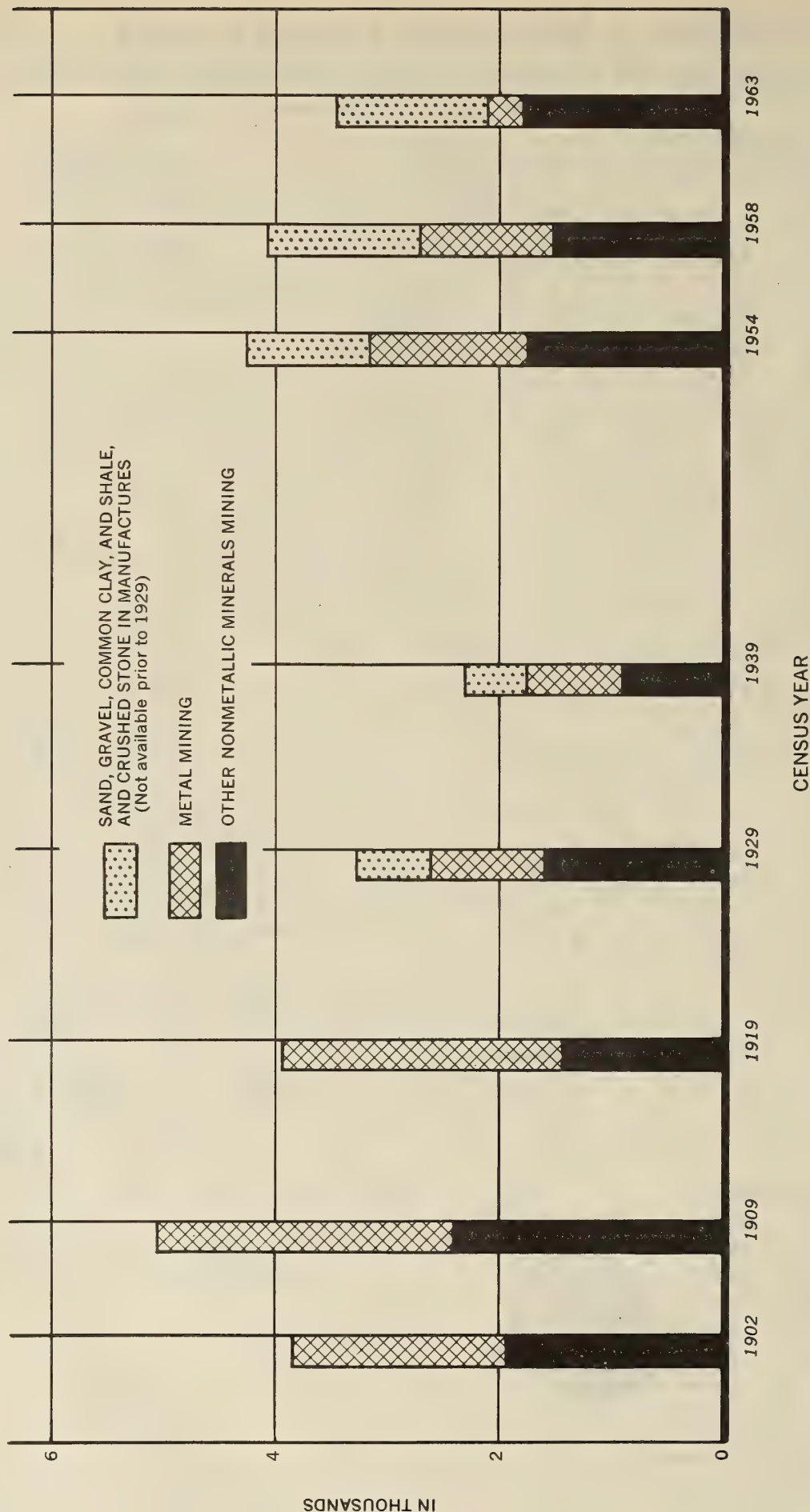
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

WISCONSIN



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|---|--|--|----------------------------|--|---|-----------------------------------|-------------------------------|------------------------------------|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 346 | 27 | 3 097 | 16 996 | 2 506 | 5 020 | 13 193 | 37 474 | |
| 1953 | 295 | 37 | 3 736 | 17 673 | 3 241 | 6 303 | 14 834 | 31 630 | |
| 1954 | 294 | 38 | 3 935 | 17 034 | 3 496 | 7 365 | 14 296 | 37 144 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 397 | 33 | 3 454 | 19 869 | 2 323 | 5 671 | 14 800 | 41 345 | |
| 1953 | 333 | 44 | 4 127 | 19 400 | 3 596 | 6 997 | 16 368 | 35 045 | |
| 1954 ¹ | 329 | 43 | 4 233 | 12 094 | 3 774 | 7 921 | 15 259 | 33 632 | |
| 1939 ² | 3153 | (NA) | 2 322 | 2 117 | 2 093 | 4 177 | 2 604 | 6 460 | |
| 1929 ⁴ | 147 | (NA) | 3 291 | 5 123 | 2 907 | (NA) | 4 231 | 10 463 | |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS: | | | | | | | | | |
| 1963 | 150 | 22 | 2 132 | 11 728 | 1 771 | 3 546 | 9 303 | 24 507 | |
| 1953 | 130 | 23 | 2 753 | 13 195 | 2 429 | 4 603 | 11 262 | 20 235 | |
| 1954 | 150 | 31 | 3 174 | 13 353 | 2 363 | 5 943 | 11 672 | 29 333 | |
| 1939 ² | 333 | (NA) | 1 761 | 2 334 | 1 619 | 3 229 | 2 041 | 4 303 | |
| 1929 ⁵ | 91 | (NA) | 2 624 | 3 945 | 2 383 | (NA) | 3 403 | 7 959 | |
| 1919 | 96 | (NA) | 3 954 | 5 533 | 3 652 | (NA) | 4 393 | 7 419 | |
| 1909 | 291 | (NA) | 5 034 | 3 399 | 4 795 | (NA) | 3 123 | 5 907 | |
| 1902 ⁶ | 3415 | (NA) | 3 570 | 2 229 | 73 590 | (NA) | 1 992 | 3 615 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ⁸ (\$1,000) | Capital expenditures (\$1,000) | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963 | 916 021 | (⁹) | 2 213 | 4 392 | 54 731 | 5 369 | 662 | 264 | 365 |
| 1953 | 12 140 | 995 | 2 029 | 2 563 | 44 894 | 4 513 | 696 | 215 | (NA) |
| 1954 | 12 539 | 744 | 1 515 | 5 136 | 49 601 | 7 577 | 695 | 199 | 318 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963 | 1016 536 | 935 | 102 263 | 114 502 | 60 092 | 115 539 | 11 662 | 264 | 11 365 |
| 1953 | 1013 335 | 1 021 | 102 062 | 112 698 | 49 563 | 114 648 | 11 714 | 199 | (NA) |
| 1954 ¹ | 1013 077 | 769 | 101 520 | 115 247 | 51 663 | 117 632 | 11 723 | 192 | 11 320 |
| 1939 ² | 1 934 | (NA) | 13 | (NA) | 3 412 | (NA) | 233 | 114 | 73 |
| 1929 ⁴ | 2 642 | (NA) | 53 | 635 | 13 163 | (NA) | 638 | 237 | 67 |
| EXCLUDING SAND, GRAVEL, COMMON CLAY, AND SHALE OPERATIONS AND STONE QUARRIES OPERATED AS PARTS OF CEMENT AND LIME PLANTS: | | | | | | | | | |
| 1963 | 91012 613 | (⁹) | 101 039 | 112 354 | 37 310 | 113 203 | 11 329 | 136 | 11173 |
| 1953 | 103 657 | 1 021 | 10994 | 111 397 | 29 774 | 112 530 | 11 393 | 153 | (NA) |
| 1954 | 1010 761 | 769 | 10619 | 114 007 | 39 237 | 116 252 | 11 446 | 156 | 11201 |
| 1939 ² | 1 450 | (NA) | 3 | (NA) | 6 263 | (NA) | 113 | 73 | 45 |
| 1929 ⁵ | 2 015 | (NA) | 29 | 437 | 10 003 | (NA) | 603 | 255 | 46 |
| 1919 | 2 326 | 34 | 252 | (NA) | 10 531 | (NA) | 126 106 | 1 672 | 23 |
| 1909 | 1 351 | 156 | 45 | (NA) | 7 459 | (NA) | (NA) | (NA) | 27 |
| 1902 ⁶ | 309 | (NA) | 4 | (NA) | 4 423 | (NA) | (NA) | (NA) | 13 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for sand and gravel mining operations in manufacturing establishments.

²Except, in part, for value of shipments and value added, excludes data for dimension stone dressing plants operated in conjunction with quarries. The value added in dressing limestone and granite at such operations was \$236 thousand; this value has been included in the value of shipments and value added in mining. The comparable value for sandstone is not available. Excludes data for one central office associated with nonproducing operations.

³Represents number of mines and quarries.

⁴Excludes data for common clay and shale operations. In 1939, there were 4 such mines with products valued at \$34 thousand. See also footnote 5.

⁵Excludes data for one nonproducing establishment.

⁶Includes data for 2 cement plants and for lime plants producing lime valued at \$549 thousand.

⁷Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment. For 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For all other years represents net production and excludes this duplication.

⁹Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹¹Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹²Excludes purchased electric energy. For such operations in 1939, the quantity of purchased electric energy amounted to only 5 percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|---|--|---------------------------|---|------------------------------------|-------------------------|--|--------------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| 10 | ALL MINERAL OPERATIONS | 397 | 33 | 3 454 | 18 869 | 2 823 | 5 671 | 14 800 |
| | MINERAL INDUSTRIES | 346 | 27 | 3 097 | 16 996 | 2 506 | 5 020 | 13 193 |
| | INCLUDED IN MANUFACTURES | 51 | 6 | 1 358 | 11 873 | 1 317 | 651 | 1 607 |
| | METAL MINING | 11 | 4 | 2 329 | 2 1 792 | 279 | 478 | 1 430 |
| 14 | NONMETALLIC MINERALS MINING | 386 | 29 | 3 126 | 17 077 | 2 544 | 5 193 | 13 370 |
| | MINERAL INDUSTRIES | 335 | 23 | 2 768 | 15 204 | 2 227 | 4 542 | 11 763 |
| | INCLUDED IN MANUFACTURES | 51 | 6 | 1 358 | 11 873 | 1 317 | 651 | 1 607 |
| | 141 | DIMENSION STONE | 50 | 7 | 382 | 1 915 | 332 | 670 |
| MINERALS INDUSTRY | | 25 | 2 | 108 | 367 | 99 | 186 | 335 |
| INCLUDED IN MANUFACTURES | | 25 | 5 | 274 | 1 548 | 233 | 484 | 1 282 |
| DIMENSION LIMESTONE | | 26 | 3 | 202 | 1 266 | 163 | 359 | 1 034 |
| 142 | CRUSHED AND BROKEN STONE | 89 | 11 | 1 427 | 17 984 | 1 160 | 2 401 | 6 246 |
| | MINERAL INDUSTRY | 85 | 11 | 1 414 | 7 939 | 1 147 | 2 375 | 6 201 |
| | CRUSHED AND BROKEN LIMESTONE: (MINERAL SUBINDUSTRY) | 72 | 8 | 1 035 | 5 804 | 846 | 1 783 | 4 637 |
| | 144 | SAND AND GRAVEL | 238 | 11 | 1 292 | 7 065 | 1 030 | 2 083 |
| MINERAL INDUSTRY | | 221 | 10 | 1 230 | 6 816 | 968 | 1 958 | 5 172 |
| INCLUDED IN MANUFACTURES | | 17 | 1 | 1 62 | 1 249 | 1 62 | 125 | 249 |
| CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY | | 208 | 8 | 1 100 | 6 152 | 860 | 1 737 | 4 624 |
| | INDUSTRIAL SAND SUBINDUSTRIES ³ | 13 | 2 | 130 | 664 | 108 | 221 | 548 |
| Code | Industry group and industry | 1963—Continued | | | | 1958 | | |
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining | |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) | |
| 10 | ALL MINERAL OPERATIONS | 41 345 | 4 24 286 | 1 60 092 | 5 5 539 | 4 127 | 35 045 | |
| | MINERAL INDUSTRIES | 37 474 | 22 626 | 54 731 | 5 369 | 3 736 | 31 680 | |
| | INCLUDED IN MANUFACTURES | 3 871 | 1 660 | 5 361 | 1 170 | 1 391 | 3 365 | |
| | METAL MINING | 5 452 | 2 152 | 7 279 | 325 | 1 199 | 6 931 | |
| 14 | NONMETALLIC MINERALS MINING | 35 893 | 4 22 134 | 1 52 313 | 5 5 214 | 2 908 | 28 114 | |
| | MINERAL INDUSTRIES | 32 022 | 20 474 | 47 452 | 5 044 | 2 517 | 24 749 | |
| | INCLUDED IN MANUFACTURES | 3 871 | 1 660 | 5 361 | 1 170 | 1 391 | 3 365 | |
| | 141 | DIMENSION STONE | 2 858 | 1 798 | 4 447 | 209 | 399 | 2 419 |
| MINERALS INDUSTRY | | 687 | 383 | 1 031 | 39 | 93 | 524 | |
| INCLUDED IN MANUFACTURES | | 2 171 | 1 415 | 3 416 | 170 | 306 | 1 895 | |
| DIMENSION LIMESTONE | | 1 699 | 1 317 | 2 858 | 158 | 248 | 1 705 | |
| 142 | CRUSHED AND BROKEN STONE | 16 177 | 4 12 562 | 1 26 087 | (NA) | (NA) | (NA) | |
| | MINERAL INDUSTRY | 16 081 | 12 510 | 25 939 | 2 652 | 1 128 | 10 768 | |
| | CRUSHED AND BROKEN LIMESTONE: (MINERAL SUBINDUSTRY) | 9 268 | 5 859 | 12 343 | 1 784 | 901 | 8 180 | |
| | 144 | SAND AND GRAVEL | 16 629 | 4 7 701 | 1 21 994 | (NA) | 1 354 | 14 626 |
| MINERAL INDUSTRY | | 15 138 | 7 535 | 20 337 | 2 336 | 1 289 | 13 340 | |
| INCLUDED IN MANUFACTURES | | 1 491 | 1 166 | 1 657 | (NA) | 165 | 1 286 | |
| CONSTRUCTION SAND AND GRAVEL SUB- INDUSTRY | | 12 943 | 6 846 | 17 661 | 2 128 | 6 1 205 | 6 12 386 | |
| | INDUSTRIAL SAND SUBINDUSTRIES ³ | 2 195 | 689 | 2 676 | 208 | 6 84 | 6 954 | |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.

(X) Not applicable.

¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.

²Includes figures for separately reported central offices and related facilities in the Crude Petroleum and Natural Gas Industry.

³Represents the Glass Sand, Foundry Sand, and Industrial Sand, N.E.C. Subindustries.

⁴For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

⁵Excludes figures for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

⁶Figures for the Industrial Sand, N.E.C. Subindustry are included with those for the Construction Sand and Gravel Subindustry.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ¹ | | | |
|------|---|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|---------------------|--|------------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | | | | |
| | ALL MINERAL INDUSTRIES . | 22 626 | ³ 16 021 | (³) | 2 213 | 4 392 | 5 369 | 207 | 5 162 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING | 2 152 | ³ 2 014 | (³) | 11 | 127 | 325 | 38 | 287 | (x) | (x) | (x) | (x) |
| 14 | NONMETALLIC MINERALS MINING. | 20 474 | 13 794 | 213 | 2 202 | 4 265 | 5 044 | 169 | 4 875 | (x) | (x) | (x) | (x) |
| 1421 | CRUSHED AND BROKEN STONE . | 12 510 | ³ 8 974 | (³) | 968 | 2 568 | 2 652 | 94 | 2 558 | 11 118 | 23 047 | ⁴ 689 | ⁴ 943 |
| | CRUSHED AND BROKEN LIME-STONE SUBINDUSTRY . . . | 5 859 | ³ 3 234 | (³) | 904 | 1 721 | 1 784 | 86 | 1 698 | 9 275 | 10 164 | ⁴ 642 | ⁴ 859 |
| 1441 | SAND AND GRAVEL | 7 535 | ³ 4 663 | (³) | 1 224 | 1 648 | 2 336 | 74 | 2 262 | 18 616 | ⁵ 21 300 | ⁶ 2 967 | (⁵) |
| | CONSTRUCTION SAND AND GRAVEL SUBINDUSTRY. . . | 6 848 | ³ 4 249 | (³) | 1 136 | 1 461 | 2 128 | 49 | 2 079 | 17 326 | ⁵ 18 701 | ⁴ 2 820 | (⁵) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Excludes figures for minerals produced and used in the same establishment.⁵Figures for the value of shipments of primary products by establishments classified in other industries or subindustries are included with those for the value of shipments of primary products by establishments classified in the specified industry or subindustry. See also footnote 6.⁶Includes figures for minerals produced and used in the same establishment in making manufactured products. The value of such products was estimated.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Nonproducing establishments |
|-----------|--|------------------------------------|--------------------------|------------|-------------------|----------------|---|-------------------------------|-------------------|----------------|---------------------------------------|--|-----------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Underground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Underground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 344 | 336 | 72 | 5 | 67 | - | 258 | 1 | 249 | 8 | 6 | 8 |
| | NUMBER OF EMPLOYEES..... | 3 087 | 3 060 | 500 | (D) | (D) | - | 2 511 | (D) | 2 453 | (D) | 49 | 27 |
| | VALUE ADDED IN MINING.....\$1,000.. | 37 592 | 37 588 | 7 430 | (D) | (D) | - | 29 479 | (D) | 29 123 | (D) | 679 | 4 |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 11 | 8 | 5 | 5 | - | - | 1 | 1 | - | - | 2 | 3 |
| | NUMBER OF EMPLOYEES..... | 322 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 5 452 | (D) | (D) | (D) | - | - | (D) | (D) | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 333 | 328 | 67 | - | 67 | - | 257 | - | 249 | 8 | 4 | 5 |
| | NUMBER OF EMPLOYEES..... | 2 764 | (D) | (D) | - | (D) | - | (D) | - | 2 453 | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 32 132 | (D) | (D) | - | (D) | - | (D) | - | 29 123 | (D) | (D) | (D) |
| 142 | CRUSHED AND BROKEN STONE | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 85 | 84 | 7 | - | 7 | - | 77 | - | 77 | - | - | 1 |
| | NUMBER OF EMPLOYEES..... | (D) | (D) | (D) | - | (D) | - | 1 383 | - | 1 383 | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | (D) | (D) | (D) | - | (D) | - | 15 989 | - | 15 989 | - | - | (D) |
| 144 | SAND AND GRAVEL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 221 | 219 | 37 | - | 37 | - | 178 | - | 170 | 8 | 4 | 2 |
| | NUMBER OF EMPLOYEES..... | 1 230 | (D) | (D) | - | (D) | - | (D) | - | (D) | (D) | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 15 140 | (D) | (D) | - | (D) | - | (D) | - | (D) | (D) | (D) | (D) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|---------|---|-----------|--------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | | | | | | |
| | ALL MINERALS OPERATIONS | 397 | 33 | 3 455 | 18 869 | 2 823 | 5 671 | 14 800 | 41 345 | 24 286 | 60 092 | 5 539 | 4 127 | 35 045 |
| | MINERAL INDUSTRIES. | 346 | 27 | 3 097 | 16 996 | 2 506 | 5 020 | 13 193 | 37 474 | 22 626 | 54 731 | 5 369 | 3 736 | 31 680 |
| | INCLUDED IN MANUFACTURES. | 51 | 6 | 358 | 1 873 | 317 | 651 | 1 607 | 3 871 | 1 660 | 5 361 | 170 | 391 | 3 365 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | BROWN COUNTY, TOTAL. | 11 | - | 53 | 189 | 48 | 98 | 172 | 462 | 119 | 533 | 48 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 11 | - | 53 | 189 | 48 | 98 | 172 | 462 | 119 | 533 | 48 | 48 | 439 |
| | BUFFALO COUNTY, TOTAL. | 6 | 1 | 48 | 121 | 42 | 95 | 105 | 499 | 385 | 810 | 74 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 1 | 48 | 121 | 42 | 95 | 105 | 499 | 385 | 810 | 74 | (NA) | (NA) |
| | DANE COUNTY, TOTAL | 23 | 1 | 159 | 786 | 129 | 234 | 619 | 1 197 | 1 149 | 2 043 | 303 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 23 | 1 | 159 | 786 | 129 | 234 | 619 | 1 197 | 1 149 | 2 043 | 303 | 171 | 1 862 |
| 144 | SAND AND GRAVEL. | 12 | - | 78 | 369 | 56 | 114 | 263 | 788 | 518 | 1 147 | 159 | 97 | 1 113 |
| | FOND DU LAC COUNTY, TOTAL. | 7 | 1 | 51 | 210 | 45 | 94 | 184 | 497 | 241 | 689 | 49 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | 1 | 51 | 210 | 45 | 94 | 184 | 497 | 241 | 689 | 49 | 47 | 433 |
| | GREEN LAKE COUNTY, TOTAL | 8 | - | 44 | 227 | 38 | 53 | 211 | 608 | 143 | 686 | 65 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 8 | - | 44 | 227 | 38 | 53 | 211 | 608 | 143 | 686 | 65 | 16 | 156 |
| 144 | SAND AND GRAVEL. | 8 | - | 44 | 227 | 38 | 53 | 211 | 608 | 143 | 686 | 65 | (NA) | (NA) |
| | LAFAYETTE COUNTY, TOTAL. | 11 | 3 | 120 | 597 | 105 | 223 | 515 | 905 | 1 509 | 2 128 | 286 | (NA) | (NA) |
| | MILWAUKEE COUNTY, TOTAL. | 12 | - | 68 | 406 | 46 | 114 | 261 | 925 | 252 | 1 101 | 76 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 12 | - | 61 | 324 | 46 | 114 | 261 | 925 | 252 | 1 101 | 76 | 197 | 1 801 |
| | OUTAGAMIE COUNTY, TOTAL. | 5 | - | 46 | 318 | 41 | 101 | 264 | 493 | 321 | 707 | 107 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 5 | - | 46 | 318 | 41 | 101 | 264 | 493 | 321 | 707 | 107 | 56 | 439 |
| | RACINE COUNTY, TOTAL | 9 | 2 | 90 | 488 | 76 | 157 | 430 | 1 015 | 507 | 1 412 | 110 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | 2 | 90 | 488 | 76 | 157 | 430 | 1 015 | 507 | 1 412 | 110 | 88 | 1 165 |
| | ROCK COUNTY, TOTAL | 15 | - | 91 | 575 | 76 | 169 | 459 | 1 042 | 559 | 1 468 | 133 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 15 | - | 91 | 575 | 76 | 169 | 459 | 1 042 | 559 | 1 468 | 133 | 73 | 606 |
| 144 | SAND AND GRAVEL. | 6 | - | 53 | 328 | 43 | 91 | 267 | 695 | 411 | 985 | 121 | (NA) | (NA) |
| | SAUK COUNTY, TOTAL | 11 | 2 | 195 | 1 231 | 111 | 222 | 691 | 2 698 | 1 201 | 3 721 | 178 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 11 | 2 | 195 | 1 231 | 111 | 222 | 691 | 2 698 | 1 201 | 3 721 | 178 | 155 | 1 980 |
| | WALWORTH COUNTY, TOTAL | 7 | - | 42 | 275 | 30 | 62 | 142 | 664 | 179 | 820 | 23 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 7 | - | 42 | 275 | 30 | 62 | 142 | 664 | 179 | 820 | 23 | (NA) | (NA) |
| 144 | SAND AND GRAVEL. | 7 | - | 42 | 275 | 30 | 62 | 142 | 664 | 179 | 820 | 23 | 23 | 99 |
| | WASHINGTON COUNTY, TOTAL | 9 | - | 28 | 215 | 22 | 52 | 149 | 861 | 184 | 948 | 97 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 9 | - | 28 | 215 | 22 | 52 | 149 | 861 | 184 | 948 | 97 | 25 | 371 |
| 144 | SAND AND GRAVEL. | 9 | - | 28 | 215 | 22 | 52 | 149 | 861 | 184 | 948 | 97 | (NA) | (NA) |
| | WAUKESHA COUNTY, TOTAL | 46 | 4 | 334 | 2 380 | 235 | 453 | 1 575 | 4 484 | 2 302 | 6 156 | 630 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 46 | 4 | 334 | 2 380 | 235 | 453 | 1 575 | 4 484 | 2 302 | 6 156 | 630 | 298 | 3 224 |
| 144 | SAND AND GRAVEL. | 33 | 3 | 270 | 1 966 | 189 | 354 | 1 315 | 3 719 | 1 945 | 5 064 | 600 | 195 | 2 263 |
| | WINNEBAGO COUNTY, TOTAL. | 6 | 2 | 116 | 730 | 99 | 227 | 589 | 1 367 | 554 | 1 789 | 131 | (NA) | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 6 | 2 | 116 | 730 | 99 | 227 | 589 | 1 367 | 553 | 1 789 | 131 | 185 | 1 404 |

Note: County industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnote 1 and 4.

³Excludes data for establishments included in manufactures.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)- | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ^a | In- cluded in man- u- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| WISCONSIN, TOTAL | 397 | 346 | 51 | 3 | - | 8 | - | - | - | - | - | - | - | - | - | - | - | - | 25 | 25 | 85 | 4 | 221 | 17 | - | 5 | - | 2 | 2 | - |
| NO EMPLOYEES | 63 | 61 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | - | 15 | - | 38 | 1 | - | 1 | - | - | - | - |
| 1-4 EMPLOYEES | 169 | 137 | 32 | 1 | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 10 | 14 | 23 | 4 | 98 | 11 | - | 3 | - | 2 | 1 | - |
| 5-9 EMPLOYEES | 71 | 64 | 7 | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 4 | 13 | - | 46 | 2 | - | 1 | - | - | 1 | - |
| 10-19 EMPLOYEES | 61 | 57 | 4 | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 2 | 23 | - | 29 | 2 | - | - | - | - | - | - |
| 20-49 EMPLOYEES | 24 | 19 | 5 | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 4 | 7 | - | 7 | 1 | - | - | - | - | - | - |
| 50-99 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 4 | 4 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - | - |
| 250-499 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| ADAMS COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| ASHLAND COUNTY, TOTAL | 3 | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - | - | - |
| BARRON COUNTY, TOTAL | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 7 | 6 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | - | - | - | - | 1 | - | - |
| BROWN COUNTY, TOTAL | 13 | 11 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 10 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 13 | 11 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | 10 | 1 | - | - | - | - | - | - |
| BUFFALO COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | 1 | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| CALUMET COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - | - | - | - |
| CHIPPEWA COUNTY, TOTAL | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - |
| CLARK COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | 3 | - | - | - | - | - | - | - | - |
| COLUMBIA COUNTY, TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 5 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 6 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | 2 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - |
| CRAWFORD COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 1 | - | - | - | - | - | - | - |
| DANE COUNTY, TOTAL | 24 | 23 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 10 | - | 12 | 1 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 23 | 22 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 9 | - | 12 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| DODGE COUNTY, TOTAL | 6 | 5 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| DOOR COUNTY, TOTAL | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 4 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | 3 | - | - | - | - | - | - | - |
| DOUGLAS COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| DUNN COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | 1 | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | 1 | - | 1 | - | - |
| EAU CLAIRE COUNTY, TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| FOND DU LAC COUNTY, TOTAL | 14 | 7 | 7 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 4 | 3 | 1 | 3 | 1 | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3 | 3 | 1 | 3 | 1 | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| FOREST COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| GRANT COUNTY, TOTAL | 6 | 6 | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | 1 | - | - | - | - | - | - | - | - | - | -</ | | | | | | | | | | | | | | | |

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------|---|--|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| JUNEAU COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| 250 EMPLOYEES AND OVER | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| KENOSHA COUNTY: TOTAL | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 5 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - |
| KEWAUNEE COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| LA CROSSE COUNTY: TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| LAFAYETTE COUNTY: TOTAL | 11 | 11 | - | - | 6 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | 3 | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | 3 | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 3 | 3 | - | - | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| LANGLADE COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| LINCOLN COUNTY: TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - |
| MANITOWOC COUNTY: TOTAL | 11 | 8 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 8 | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 11 | 8 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 8 | - | - | 1 | - | - | - | - | - |
| MARATHON COUNTY: TOTAL | 17 | 15 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | 2 | 4 | - | 4 | - | - | - | 1 | - | - | - |
| 0-19 EMPLOYEES | 14 | 13 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 5 | 1 | 3 | - | 4 | - | - | - | 1 | - | - | - |
| 20-99 EMPLOYEES | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| MARINETTE COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 100-249 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - |
| MARQUETTE COUNTY: TOTAL | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - |
| MILWAUKEE COUNTY: TOTAL | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 10 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 12 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 10 | - | - | - | - | - | - | - | - |
| MONROE COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| OCONTO COUNTY: TOTAL | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 2 | - | - | - | - | - | - | - | - |
| ONEIDA COUNTY: TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | -</ | | | | | | | | | | | | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963—Continued

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)— | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------------------|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------|-----|----------|-----|----------|-----|----------|-----|-----|-----|----------|
| | Total | Classi- fied in mineral indus- tries ¹ | In- cluded in manu- fac- tures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| SHAWANO COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - |
| SHEBOYGAN COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - | - |
| TAYLOR COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - |
| TREMPEALEAU COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | 1 | - | - |
| VERNON COUNTY, TOTAL | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | - | - | - | - | - | - | - | - |
| VILAS COUNTY, TOTAL | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | - | - | - | - | - | - | - |
| WALWORTH COUNTY, TOTAL | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 2 | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 9 | 7 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 7 | 2 | - | - | - | - | - | - |
| WASHINGTON COUNTY, TOTAL | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | 1 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 10 | 9 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9 | 1 | - | - | - | - | - | - | - |
| WAUKESHA COUNTY, TOTAL | 60 | 46 | 14 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 12 | 3 | - | 33 | 2 | - | - | - | - | 2 | - |
| 0-19 EMPLOYEES | 54 | 42 | 12 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 8 | 10 | 2 | - | 30 | 2 | - | - | - | - | 2 | - |
| 20-99 EMPLOYEES | 6 | 4 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | 1 | - | 3 | - | - | - | - | - | - | - |
| WAUPACA COUNTY, TOTAL | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 1 | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 2 | - | - | 1 | - | - | - | - |
| WAUSHARA COUNTY, TOTAL | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - |
| WINNEBAGO COUNTY, TOTAL | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2 | - | 4 | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 3 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - |
| WOOD COUNTY, TOTAL | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 3 | 2 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 | - | - | - | - | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c. Not elsewhere classified.
¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

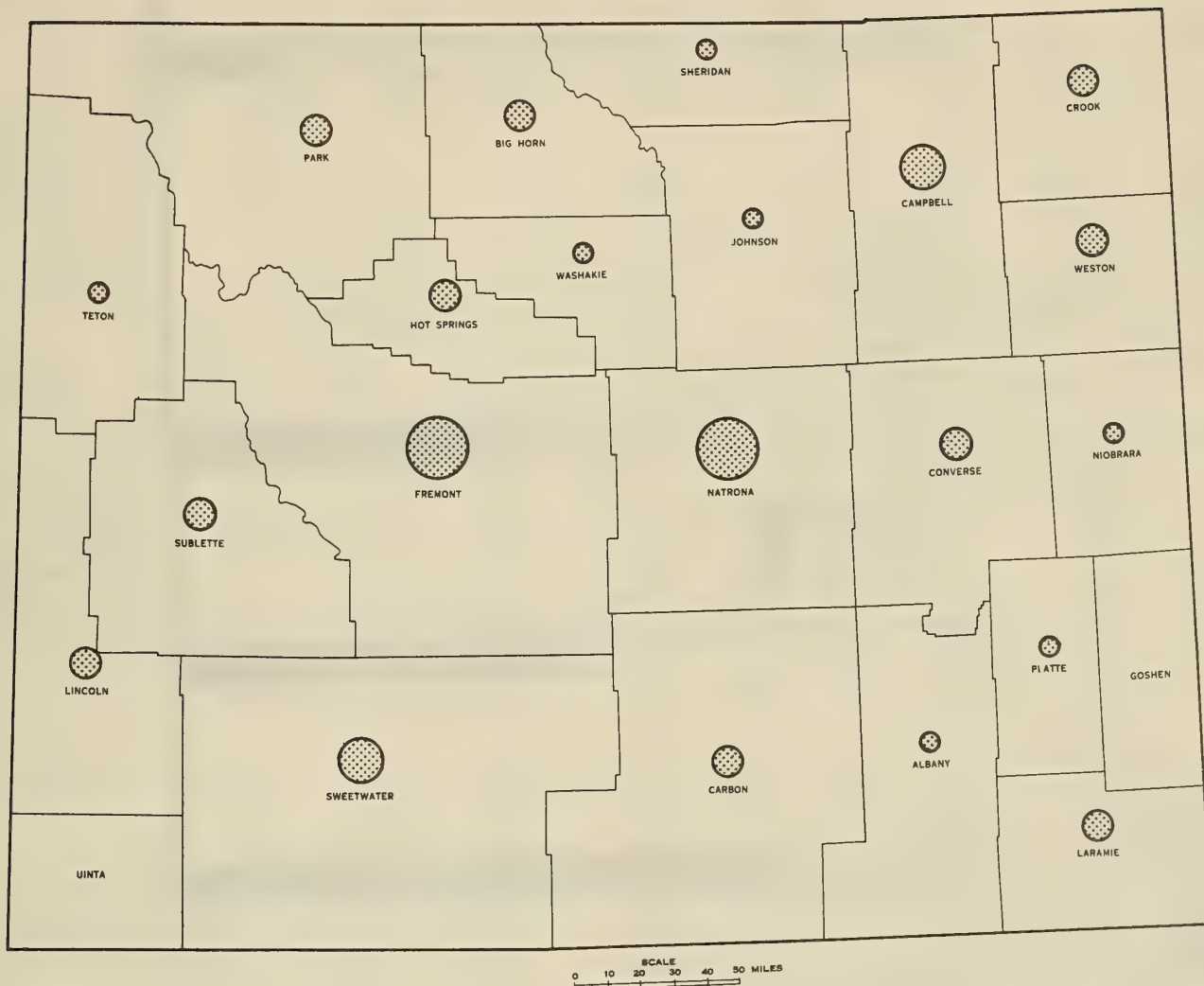
EMPLOYMENT IN MINING BY COUNTY: 1963

WYOMING

RANK AMONG STATES

EMPLOYMENT - 20

VALUE OF SHIPMENT - 10



EMPLOYMENT

8000 - 12000

4000 - 7999

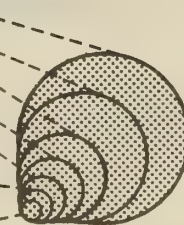
2000 - 3999

1000 - 1999

500 - 999

200 - 499

25 - 199



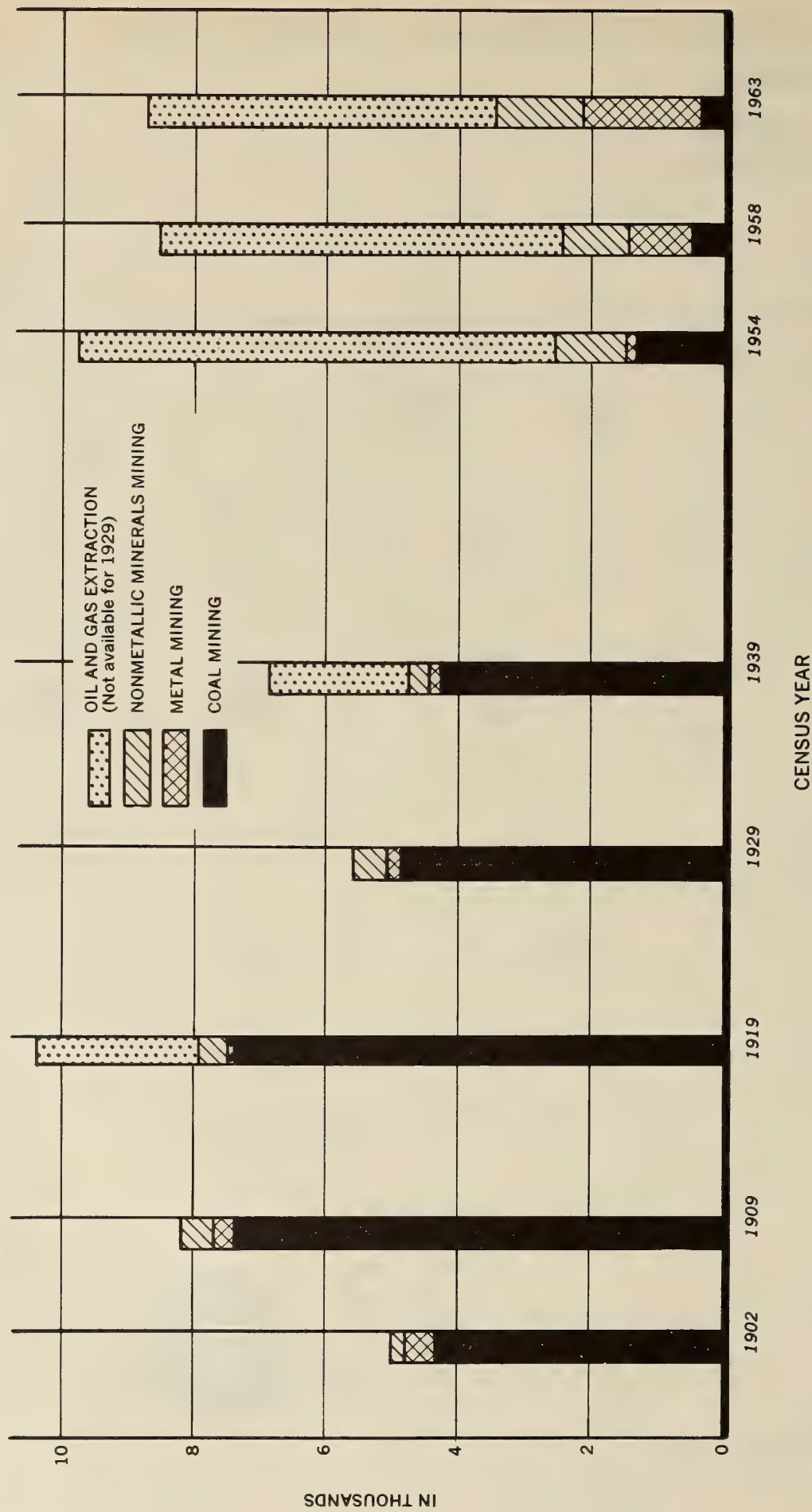
U. S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

EMPLOYMENT IN MINING

Including Mining in Manufactures: 1902-1963

WYOMING



DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics for Mineral Operations: 1963 and Earlier Years

| Kind of operation and year | Establishments | | All employees | | Production, development, and exploration workers | | | Value added in mining (\$1,000) | |
|--|--|--|--------------------------------|--|--|--------------------------|-------------------------------|--|--|
| | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) | | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 532 | 101 | 8 732 | 60 893 | 6 629 | 14 131 | 43 766 | 453 101 | |
| 1958..... | 489 | 86 | 8 545 | 48 522 | 5 954 | 11 897 | 30 641 | 342 350 | |
| 1954..... | 483 | 101 | 9 714 | 45 724 | 7 460 | 14 579 | 32 385 | 258 165 | |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963..... | 541 | 101 | 8 760 | 61 052 | 6 657 | 14 185 | 43 925 | 453 779 | |
| 1958..... | 501 | 86 | 8 577 | 48 675 | 5 986 | 11 959 | 30 794 | 343 180 | |
| 1954 ² | 487 | 101 | 9 745 | 45 847 | 7 491 | 14 641 | 32 508 | 258 503 | |
| 1939..... | 188 | (NA) | 6 848 | 10 442 | 6 204 | 10 189 | 8 765 | 32 679 | |
| 1919 ⁴ | 121 | (NA) | 10 380 | 16 171 | 9 781 | (NA) | 14 710 | 33 128 | |
| 1909 ⁵ | 130 | (NA) | 8 234 | 6 954 | 7 900 | (NA) | 6 427 | 8 630 | |
| 1902 ⁵ | 150 | (NA) | 5 027 | 4 026 | 64 795 | (NA) | 3 750 | 4 623 | |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963..... | 130 | 41 | 3 464 | 22 793 | 2 745 | 5 898 | 17 540 | 84 370 | |
| 1958..... | 145 | 23 | 2 484 | 12 275 | 1 998 | 3 803 | 9 608 | 44 005 | |
| 1954 ² | 117 | 24 | 2 577 | 10 219 | 2 279 | 3 921 | 8 699 | 132 155 | |
| 1939..... | 90 | (NA) | 4 776 | 6 642 | 4 511 | 6 491 | 5 896 | 10 914 | |
| 1929 ⁷ | 66 | (NA) | 5 607 | 10 417 | 5 354 | (NA) | 9 769 | 15 853 | |
| 1919 ⁴ | 71 | (NA) | 7 919 | 12 083 | 7 547 | (NA) | 11 109 | 16 518 | |
| 1909 ⁵ | 116 | (NA) | 8 214 | 6 940 | 7 887 | (NA) | 6 416 | 8 751 | |
| Kind of operation and year | Selected expenses | | | | Value of shipments and receipts ^a | Capital expenditures | Energy used (kwh. equivalent) | | Horsepower rating of power equipment (1,000 hp) |
| | Supplies, purchases for resale, and purchased fuels and electric energy (\$1,000) | Minerals received for preparation (\$1,000) | Contract work (\$1,000) | Purchased machinery installed (\$1,000) | | | Total (million) | Per production worker (1,000) | |
| MINERAL INDUSTRIES ONLY: | | | | | | | | | |
| 1963..... | 9107 387 | (⁹) | 49 901 | 26 489 | 560 599 | 76 279 | 10 125 | 1 527 | 969 |
| 1958..... | 43 759 | 16 423 | 49 707 | 18 715 | 404 870 | 66 084 | 7 161 | 1 203 | (NA) |
| 1954..... | 43 389 | 101 399 | 56 146 | 25 319 | 312 959 | 71 475 | 9 546 | 1 280 | 682 |
| INCLUDING OPERATIONS IN MANUFACTURES: | | | | | | | | | |
| ALL OPERATIONS: | | | | | | | | | |
| 1963..... | 9 1107 565 | (⁹) | 1149 901 | 1226 489 | 561 455 | 1276 279 | 1210 125 | 1 527 | 12969 |
| 1958..... | 1143 941 | 16 423 | 1149 707 | 1218 715 | 405 882 | 1266 084 | 127 161 | 1 196 | (NA) |
| 1954 ² | 1143 751 | 101 399 | 1156 146 | 1225 319 | 313 659 | 1271 475 | 129 546 | 1 274 | 12682 |
| 1939..... | 3 016 | (NA) | 3 176 | (NA) | 38 871 | (NA) | 1 856 | 299 | 129 |
| 1919 ⁴ | 7 906 | 1374 | 821 | (NA) | 41 929 | (NA) | 142 651 | 271 | 63 |
| 1909 ⁵ | 1 861 | - | 81 | (NA) | 10 572 | (NA) | (NA) | (NA) | 31 |
| 1902 ⁵ | 959 | (NA) | 102 | (NA) | 5 684 | (NA) | (NA) | (NA) | 21 |
| EXCLUDING OIL AND GAS EXTRACTION INDUSTRIES: | | | | | | | | | |
| 1963..... | 9 1137 066 | (⁹) | 116 648 | 124 309 | 125 717 | 126 676 | 122 362 | 869 | 12278 |
| 1958..... | 1110 291 | 11 473 | 1110 558 | 122 623 | 66 628 | 1212 322 | 1 207 | 604 | (NA) |
| 1954 ² | 117 015 | 349 | 112 429 | 1960 | 41 817 | 11 107 | 1410 | 619 | 12208 |
| 1939..... | 2 155 | (NA) | 40 | (NA) | 13 109 | (NA) | 855 | 190 | 68 |
| 1929 ⁷ | 2 931 | (NA) | 33 | 603 | 18 817 | (NA) | 1 409 | 263 | 52 |
| 1919 ⁴ | 3 401 | - | 50 | (NA) | 19 969 | (NA) | 141 840 | 244 | 49 |
| 1909 ⁵ | 1 749 | - | 53 | (NA) | 10 553 | (NA) | (NA) | (NA) | 39 |

Note: See appendix A for an explanation of terms used. For more detailed historical statistics for this State, see table 1 of the corresponding chapter of the 1954 Census of Mineral Industries, Vol. II. For all years prior to 1939, excludes contract service operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for the Uranium-Radium-Vanadium Ores Industry.

²Excludes data for sand and gravel mining operations in manufacturing establishments.

³Represents number of mines and quarries, number of natural gas liquids plants, and for the crude petroleum and natural gas and mining services industries, number of operating companies.

⁴Excludes data for sand, gravel, common clay, and shale operations and stone quarries operated as parts of cement plants. There were 3 such sand, gravel, common clay, and shale mines in 1939, with products valued at \$56 thousand. For 1929, only one sand and gravel establishment, and one stone quarry at a cement plant, was reported. For "Excluding oil and gas extraction industries" in 1909, except for number of establishments, includes data for 7 nonproducing crude petroleum and natural gas establishments. For 1902, only 2 oil and gas extraction operations were reported, hence, figures cannot be shown excluding such operations.

⁵Includes data for lime plants producing lime valued at \$2 thousand. See also footnote 4.

⁶Figures for average employment were converted to a 300-day basis for establishments which operated for a shorter period.

⁷Excludes data for common clay and shale mines. Only one such mine was reported

for 1939.

⁸For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, includes the estimated value of minerals produced and used in the same establishment in making manufactured products. For 1963, 1958, 1954, 1919, and 1909, represents gross value of shipments (or production for 1919 and 1909) and contains some duplication due to the transfer of crude minerals from one establishment to another for preparation. The approximate magnitude of this duplication is indicated by the figures shown for cost of minerals received for preparation. For other years, represents net production and excludes this duplication. For years prior to 1958, excludes the value of residue gas from natural gas liquids plants.

⁹Figures for minerals received for preparation are included with those for supplies, purchases for resale, and purchased fuels and electric energy.

¹⁰Excludes the cost of natural gas processed at natural gas liquids plants, but includes the estimated value prior to processing of natural gas liquids contained in such gas.

¹¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the cost of contract work is included with the cost of supplies, purchases for resale, and purchased fuels and electric energy.

¹²Excludes data for crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments.

¹³Represents natural gas purchased for use as a material and for resale.

¹⁴Excludes purchased electric energy. For 1929, the quantity of purchased electric energy amounted to only one percent of the total kwh equivalent of energy used.

TABLE 2A. General Statistics for Mineral Operations, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963 | | | | | | |
|------|--|-------------------|--|-------------------|----------------------|--|----------------------|--------------------|
| | | Establishments | | All employees | | Production, development, and exploration workers | | |
| | | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number) | Man-hours (1,000) | Wages (\$1,000) |
| | ALL MINERAL OPERATIONS..... | 541 | 101 | 8 760 | 61 052 | 6 657 | 14 185 | 43 925 |
| | MINERAL INDUSTRIES..... | 532 | 101 | 8 732 | 60 893 | 6 629 | 14 131 | 43 766 |
| | INCLUDED IN MANUFACTURES..... | 9 | - | 28 | 159 | 28 | 54 | 159 |
| 10 | METAL MINING..... | 45 | 18 | 1 794 | 12 944 | 1 394 | 3 272 | 9 875 |
| 1011 | IRON ORES..... | 4 | 2 | 621 | 4 304 | 478 | 887 | 2 979 |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES..... | 32 | 13 | 1 026 | 7 217 | 783 | 1 960 | 5 574 |
| 12 | BITUMINOUS COAL MINING..... | 21 | 7 | 364 | 1 871 | 313 | 484 | 1 586 |
| 1211 | BITUMINOUS COAL..... | 18 | 6 | 304 | 1 485 | 265 | 402 | 1 286 |
| 1213 | BITUMINOUS COAL MINING SERVICES..... | 3 | 1 | 60 | 386 | 48 | 82 | 300 |
| 13 | OIL AND GAS EXTRACTION..... | 411 | 60 | 5 296 | 38 259 | 3 912 | 8 287 | 26 385 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS..... | 205 | 26 | 2 918 | 23 391 | 1 775 | 3 591 | 13 153 |
| | CRUDE PETROLEUM..... | 195 | 23 | 2 797 | 22 515 | 1 693 | 3 415 | 12 550 |
| | NATURAL GAS..... | 10 | 3 | 121 | 876 | 82 | 176 | 603 |
| 1321 | NATURAL GAS LIQUIDS..... | 17 | 3 | 240 | 1 709 | 230 | 448 | 1 646 |
| 138 | OIL AND GAS FIELD SERVICES..... | 189 | 31 | 2 138 | 13 159 | 1 907 | 4 248 | 11 586 |
| 1381 | DRILLING OIL AND GAS WELLS..... | 77 | 19 | 1 280 | 8 676 | 1 171 | 2 704 | 7 751 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES..... | 27 | 3 | 182 | 836 | 166 | 303 | 693 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 85 | 9 | 676 | 3 647 | 570 | 1 241 | 3 142 |
| 14 | NONMETALLIC MINERALS MINING..... | 64 | 16 | 1 306 | 7 978 | 1 038 | 2 142 | 6 079 |
| | MINERAL INDUSTRIES..... | 55 | 16 | 1 278 | 7 819 | 1 010 | 2 088 | 5 920 |
| | INCLUDED IN MANUFACTURES..... | 9 | - | 28 | 159 | 28 | 54 | 159 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY..... | 7 | 3 | 129 | 698 | 122 | 221 | 673 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY..... | 25 | 1 | 125 | 558 | 119 | 238 | 552 |

| Code | Industry group and industry | 1963-Continued | | | | 1958 | |
|------|--|--------------------------|---|------------------------------------|-------------------------|------------------|--------------------------|
| | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | (\$1,000) | (\$1,000) | (\$1,000) | (\$1,000) | (number) | (\$1,000) |
| | ALL MINERAL OPERATIONS..... | 453 779 | 2183 955 | 1561 455 | (NA) | 8 577 | 343 180 |
| | MINERAL INDUSTRIES..... | 453 101 | 183 777 | 560 599 | 76 279 | 8 545 | 342 350 |
| | INCLUDED IN MANUFACTURES..... | 678 | 2178 | 1856 | (NA) | 32 | 830 |
| 10 | METAL MINING..... | 51 499 | 31 753 | 79 405 | 3 847 | 940 | 21 564 |
| 1011 | IRON ORES..... | 11 423 | 6 270 | 17 298 | 395 | (NA) | (NA) |
| 1094 | MISCELLANEOUS METAL ORES: URANIUM-RADIUM-VANADIUM ORES..... | 36 813 | 23 974 | 57 450 | 3 337 | 578 | 18 046 |
| 12 | BITUMINOUS COAL MINING..... | 7 277 | 3 359 | 10 385 | 251 | 538 | 4 690 |
| 1211 | BITUMINOUS COAL..... | 6 185 | 2 951 | 8 893 | 243 | 506 | 4 244 |
| 1213 | BITUMINOUS COAL MINING SERVICES..... | 1 092 | 408 | 1 492 | 8 | 32 | 446 |
| 13 | OIL AND GAS EXTRACTION..... | 369 409 | 135 932 | 435 738 | 69 603 | 6 093 | 299 175 |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS..... | 334 324 | 94 297 | 364 782 | 63 839 | 3 710 | 272 602 |
| | CRUDE PETROLEUM..... | 318 552 | 88 069 | 348 714 | 57 907 | 3 584 | 264 833 |
| | NATURAL GAS..... | 15 772 | 6 228 | 16 068 | 5 932 | 126 | 7 769 |
| 1321 | NATURAL GAS LIQUIDS..... | 8 610 | 25 132 | 32 141 | 1 601 | 250 | 3 990 |
| 138 | OIL AND GAS FIELD SERVICES..... | 26 475 | 16 503 | 38 815 | 4 163 | 2 133 | 22 583 |
| 1381 | DRILLING OIL AND GAS WELLS..... | 16 033 | 11 640 | 24 778 | 2 895 | 1 605 | 17 422 |
| 1382 | OIL AND GAS FIELD EXPLORATION SERVICES..... | 2 441 | 2 064 | 4 149 | 356 | 203 | 1 861 |
| 1389 | OIL AND GAS FIELD SERVICES, N.E.C. | 8 001 | 2 799 | 9 888 | 912 | 325 | 3 300 |
| 14 | NONMETALLIC MINERALS MINING..... | 25 594 | 212 911 | 135 927 | (NA) | 1 006 | 17 751 |
| | MINERAL INDUSTRIES..... | 24 916 | 12 733 | 35 071 | 2 578 | 974 | 16 921 |
| | INCLUDED IN MANUFACTURES..... | 678 | 2178 | 1856 | (NA) | 32 | 830 |
| 1421 | CRUSHED AND BROKEN STONE: MINERAL INDUSTRY..... | 1 340 | 582 | 1 844 | 78 | 87 | 585 |
| 1441 | SAND AND GRAVEL: MINERAL INDUSTRY..... | 1 501 | 717 | 1 891 | 327 | 94 | 1 053 |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, the number of production, development, and exploration workers was estimated from reported figures for man-hours. No data were obtained on other employees at such operations, hence, the same figures are included for production, development, and exploration workers and for all employees at such operations. For value of shipments and receipts, includes the estimated value of minerals produced and used in the same establishment.²For crushed and broken stone, sand and gravel, and clay mining operations in manufacturing establishments, excludes the cost of purchased machinery installed.

TABLE 2B. Selected Expenditures and Net Shipments of Primary Products of Mineral Industries for Industry Groups and Selected Industries: 1963

| Code | Industry group and industry | Selected expenses | | | | | Capital expenditures | | | Net shipments of primary products by establishment classified in— ² | | | |
|------|--|-------------------|---|-----------------------------------|---------------|-------------------------------|----------------------|---|---|--|-----------------|--|-----------------|
| | | Total | Supplies, purchases for resale, and purchased fuels and electric energy | Minerals received for preparation | Contract work | Purchased machinery installed | Total | Development and exploration of mineral property | Plant and other construction, machinery, and equipment ² | The industry | | Other mineral industries and in manufacturing industries | |
| | | | | | | | | | | Quantity (1,000 short tons) | Value (\$1,000) | Quantity (1,000 short tons) | Value (\$1,000) |
| | ALL MINERAL INDUSTRIES. | 183 777 | 3107 387 | (³) | 49 901 | 26 489 | 76 279 | 40 605 | 35 674 | (x) | (x) | (x) | (x) |
| 10 | METAL MINING..... | 31 753 | 14 355 | 10 612 | 4 728 | 2 058 | 3 847 | 2 294 | 1 553 | (x) | (x) | (x) | (x) |
| 1011 | IRON ORES..... | 6 270 | 6 120 | - | - | 150 | 395 | - | 395 | 41 576 | 417 298 | - | - |
| 1094 | MISCELLANEOUS METAL ORES: ¹ URANIUM-RADIUM-VANADIUM ORES..... | 23 974 | 7 720 | 10 612 | 4 653 | 989 | 3 337 | 2 211 | 1 126 | 31 419 | 46 838 | - | - |
| 12 | BITUMINOUS COAL MINING..... | 3 359 | (D) | - | (D) | 123 | 251 | 7 | 244 | (x) | (x) | (x) | (x) |
| 1211 | BITUMINOUS COAL..... | 2 951 | (D) | - | (D) | 115 | 243 | 7 | 236 | 3 149 | 8 893 | - | - |
| 13 | OIL AND GAS EXTRACTION..... | 135 932 | 46 884 | 23 615 | 43 253 | 22 180 | 69 603 | 38 276 | 31 327 | (x) | (x) | (x) | (x) |
| 1311 | CRUDE PETROLEUM AND NATURAL GAS..... | 94 297 | 33 940 | - | 41 246 | 19 111 | 63 839 | 38 267 | 25 572 | (x) | 363 835 | (x) | 180 |
| | CRUDE PETROLEUM..... | 88 069 | 31 906 | - | 37 586 | 18 577 | 57 907 | 33 949 | 23 958 | 6131 854 | 330 264 | 61 660 | 4 656 |
| | NATURAL GAS..... | 6 228 | 2 034 | - | 3 660 | 534 | 5 932 | 4 318 | 1 614 | 779 300 | 10 944 | 7122 435 | 18 151 |
| 1321 | NATURAL GAS LIQUIDS..... | 25 132 | 1 198 | 23 615 | 167 | 152 | 1 601 | - | 1 601 | 85 645 | (D) | - | - |
| 138 | OIL AND GAS FIELD SERVICES. | 16 503 | 11 746 | - | 1 840 | 2 917 | 4 163 | 9 | 4 154 | (x) | (x) | (x) | (x) |
| 1381 | DRILLING OIL AND GAS WELLS..... | 11 640 | 8 221 | - | 1 416 | 2 003 | 2 895 | 9 | 2 886 | (x) | 25 983 | (x) | (?) |
| 1389 | OIL AND GAS FIELD SERV- ICES, N.E.C..... | 2 799 | 1 888 | - | 209 | 702 | 912 | - | 912 | (x) | 8 699 | (x) | (?) |
| 14 | NONMETALLIC MINERALS MINING.. | 12 733 | (D) | (D) | (D) | 2 128 | 2 578 | 28 | 2 550 | (x) | (x) | (x) | (x) |

Note: See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.
n.e.c. Not elsewhere classified.¹Represents gross shipments of the mineral indicated by the industry name less minerals transferred to other establishments for preparation or less minerals received from other establishments for preparation.²Represents expenditures during the year for both new and used plant and equipment.³Figures for cost of minerals received for preparation are included with those for cost of supplies, purchases for resale, and purchased fuels and electric energy.⁴Represents direct-shipping iron ore, treated iron ore for consumption, and iron agglomerates. Quantity represents thousands of long tons. Value includes secondary products and services amounting to less than one percent of the total shown.⁵Represents crude ore mined, hence, is not directly comparable with the value of net shipments shown in the next column.⁶Represents thousands of barrels of crude petroleum, field condensate, and drips shipped or used.⁷Represents millions of cubic feet of natural gas shipped.⁸Represents natural gas liquids only. The quantity figure is in thousands of barrels.⁹Figures for primary services performed in other industries are included with those for primary services by establishments classified in the specified industry.

TABLE 2C. Selected Statistics for Mineral Industries, Except Service Industries, by Type of Operation for Industry Groups and Selected Industries: 1963

| Ind. code | Industry group or industry and item ¹ | All types of establishments, total | Producing establishments | | | | | | | | | | Non-producing establishments |
|-----------|--|------------------------------------|--------------------------|------------|--------------------|----------------|---|-------------------------------|--------------------|--------------------|---------------------------------------|--|------------------------------|
| | | | Total | Mines only | | | | Mines with preparation plants | | | | Separately operated preparation plants | |
| | | | | Total | Under-ground mines | Open-pit mines | Combination methods, well operations, and other methods | Total | Under-ground mines | Open-pit mines | Combination methods and other methods | | |
| | ALL MINERAL INDUSTRIES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 333 | 293 | 207 | 14 | 20 | 173 | 68 | 8 | 59 | 1 | 18 | 40 |
| | NUMBER OF EMPLOYEES..... | ²⁶ 001 | ²⁵ 964 | 2 944 | (D) | 90 | (D) | ²² 744 | (D) | ²¹ 742 | (D) | 276 | 37 |
| | VALUE ADDED IN MINING.....\$1,000.. | ²⁴ 23 220 | ²⁴ 23 307 | 347 866 | (D) | 4 961 | (D) | ²⁶⁶ 438 | (D) | ²⁴⁴ 547 | (D) | 9 003 | (³) |
| 10 | METAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 40 | 34 | 23 | 9 | 14 | - | 10 | 1 | 8 | 1 | 1 | 6 |
| | NUMBER OF EMPLOYEES..... | 1 652 | 1 642 | (D) | (D) | (D) | - | 1 193 | (D) | (D) | (D) | (D) | 10 |
| | VALUE ADDED IN MINING.....\$1,000.. | 48 261 | 48 235 | (D) | (D) | (D) | - | 35 720 | (D) | (D) | (D) | (D) | 26 |
| 101 | IRON ORES | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 4 | 4 | 2 | 1 | 1 | - | 2 | - | 2 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 621 | 621 | (D) | (D) | (D) | - | (D) | - | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 11 423 | 11 423 | (D) | (D) | (D) | - | (D) | - | (D) | - | - | - |
| 12 | BITUMINOUS COAL MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 18 | 18 | 6 | 4 | 2 | - | 12 | 4 | 8 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 304 | 304 | 9 | (D) | (D) | - | 295 | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 185 | 6 185 | 76 | (D) | (D) | - | 6 109 | (D) | (D) | - | - | - |
| 1211 | BITUMINOUS COAL | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 18 | 18 | 6 | 4 | 2 | - | 12 | 4 | 8 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 304 | 304 | 9 | (D) | (D) | - | 295 | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 6 185 | 6 185 | 76 | (D) | (D) | - | 6 109 | (D) | (D) | - | - | - |
| 13 | OIL AND GAS EXTRACTION | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 222 | 189 | 173 | - | - | 173 | - | - | - | - | 16 | 33 |
| | NUMBER OF EMPLOYEES..... | 2 771 | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 343 917 | (D) | (D) | - | - | (D) | - | - | - | - | (D) | (D) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 205 | 173 | 173 | - | - | 173 | - | - | - | - | - | 32 |
| | NUMBER OF EMPLOYEES..... | 2 531 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 335 307 | (D) | (D) | - | - | (D) | - | - | - | - | - | (D) |
| 132 | NATURAL GAS LIQUIDS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 17 | 16 | - | - | - | - | - | - | - | - | 16 | 1 |
| | NUMBER OF EMPLOYEES..... | 240 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | 8 610 | (D) | - | - | - | - | - | - | - | - | (D) | (D) |
| 14 | NONMETALLIC MINERALS MINING | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 53 | 52 | 5 | 1 | 4 | - | 46 | 3 | 43 | - | 1 | 1 |
| | NUMBER OF EMPLOYEES..... | ²¹ 274 | (D) | (D) | (D) | (D) | - | ²¹ 256 | 627 | ²⁶ 29 | - | (D) | (D) |
| | VALUE ADDED IN MINING.....\$1,000.. | ²⁴ 857 | (D) | (D) | (D) | (D) | - | ²⁴ 609 | 15 042 | ²⁹ 567 | - | (D) | (D) |
| 145 | CLAY AND RELATED MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 12 | 12 | 2 | - | 2 | - | 10 | - | 10 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 327 | 327 | (D) | - | (D) | - | (D) | - | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 4 756 | 4 756 | (D) | - | (D) | - | (D) | - | (D) | - | - | - |
| 147 | CHEMICAL & FERTILIZER MINERALS | | | | | | | | | | | | |
| | NUMBER OF ESTABLISHMENTS..... | 5 | 5 | - | - | - | - | 5 | 2 | 3 | - | - | - |
| | NUMBER OF EMPLOYEES..... | 688 | 688 | - | - | - | - | 688 | (D) | (D) | - | - | - |
| | VALUE ADDED IN MINING.....\$1,000.. | 17 243 | 17 243 | - | - | - | - | 17 243 | (D) | (D) | - | - | - |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Excludes data for central offices and related facilities.²Include data for two nonmetallic minerals mining service establishments.³Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed capital expenditures.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958

| Ind. code | County and industry group | 1963 | | | | | | | | | | | 1958 | |
|-----------|---|-----------------------------|---------------------------|---------------|---------|--|-----------|--------|-----------------------|---|---------------------------------|----------------------|---------------|-----------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expenditures | All employees | Value added in mining |
| | | Total | With 20 employees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | | | | | | | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) |
| | ALL MINERAL OPERATIONS | 541 | 101 | 8 760 | 61 052 | 6 657 | 14 185 | 43 925 | 453 779 | 183 955 | 561 455 | (NA) | 8 577 | 343 180 |
| | MINERAL INDUSTRIES | 532 | 101 | 8 732 | 60 893 | 6 629 | 14 131 | 43 766 | 453 101 | 183 777 | 560 599 | 76 279 | 8 545 | 342 350 |
| | INCLUDED IN MANUFACTURES ² | 9 | - | 28 | 159 | 28 | 54 | 159 | 678 | 178 | 856 | (NA) | 32 | 830 |
| | COUNTIES ³ | | | | | | | | | | | | | |
| | ALBANY COUNTY, TOTAL | 16 | 1 | 72 | 455 | 54 | 97 | 294 | 2 319 | 1 235 | 3 112 | 442 | 102 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 9 | 82 | 8 | 16 | 73 | 1 519 | 898 | 2 102 | 315 | (NA) | (NA) |
| | BIG HORN COUNTY, TOTAL | 55 | 5 | 333 | 2 133 | 230 | 499 | 1 337 | 25 805 | 6 578 | 29 884 | 2 499 | 348 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 28 | 3 | 170 | 1 236 | 111 | 220 | 723 | 23 958 | 4 035 | 25 740 | 2 253 | 208 | (NA) |
| | CAMPBELL COUNTY, TOTAL | 84 | 6 | 505 | 3 459 | 439 | 971 | 2 944 | 17 934 | 11 818 | 22 286 | 7 466 | 141 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 38 | - | 71 | 621 | 62 | 137 | 534 | 12 237 | 8 658 | 14 136 | 6 759 | 7 | (NA) |
| | CARBON COUNTY, TOTAL | 57 | 5 | 354 | 2 725 | 276 | 620 | 2 058 | 16 286 | 4 856 | 19 006 | 2 136 | 208 | (NA) |
| 10 | METAL MINING | 8 | 3 | 184 | 1 517 | 139 | 313 | 1 083 | 7 048 | 2 571 | 9 391 | 228 | (NA) | (NA) |
| 12 | BITUMINOUS COAL MINING | 5 | 1 | 62 | 411 | 57 | 116 | 386 | 1 360 | 283 | 1 617 | 26 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 19 | 1 | 55 | 407 | 35 | 72 | 247 | 7 162 | 1 345 | 6 789 | 1 718 | (NA) | (NA) |
| | CONVERSE COUNTY, TOTAL | 44 | 4 | 216 | 1 493 | 189 | 413 | 1 283 | 15 635 | 5 350 | 18 229 | 2 756 | 183 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 36 | 1 | 128 | 998 | 110 | 258 | 849 | 11 768 | 3 716 | 13 090 | 2 394 | 164 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 17 | 1 | 61 | 463 | 55 | 111 | 417 | 10 513 | 3 184 | 11 418 | 2 279 | 104 | (NA) |
| | CROOK COUNTY, TOTAL | 49 | 5 | 315 | 2 140 | 274 | 647 | 1 808 | 11 894 | 7 456 | 14 969 | 4 381 | 223 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 42 | 2 | 201 | 1 417 | 179 | 409 | 1 223 | 9 877 | 5 722 | 11 329 | 4 270 | 119 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 26 | - | 62 | 486 | 49 | 112 | 383 | 8 610 | 4 892 | 9 314 | 4 188 | (NA) | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 16 | 2 | 139 | 931 | 130 | 297 | 840 | 1 267 | 830 | 2 015 | 82 | (NA) | (NA) |
| | FREMONT COUNTY, TOTAL | 94 | 16 | 1 663 | 11 858 | 1 207 | 2 766 | 8 032 | 73 320 | 35 147 | 95 045 | 13 422 | 1 004 | (NA) |
| 10 | METAL MINING | 22 | 10 | 1 282 | 9 272 | 895 | 2 073 | 6 034 | 34 734 | 23 193 | 54 715 | 3 212 | (NA) | (NA) |
| 109 | MISCELLANEOUS METAL ORES | 17 | 8 | 747 | 5 205 | 551 | 1 430 | 3 862 | 26 045 | 17 181 | 40 321 | 2 905 | 523 | 12 359 |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 32 | 2 | 113 | 888 | 70 | 140 | 533 | 34 719 | 7 727 | 33 397 | 9 049 | 197 | (NA) |
| | HOT SPRINGS COUNTY, TOTAL | 52 | 3 | 284 | 2 177 | 221 | 436 | 1 549 | 38 302 | 9 142 | 44 768 | 2 676 | 372 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 48 | 3 | 275 | 2 118 | 212 | 420 | 1 490 | 38 215 | 9 096 | 44 651 | 2 660 | 353 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 19 | 2 | 180 | 1 545 | 123 | 250 | 993 | 37 034 | 8 448 | 42 991 | 2 491 | 265 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 29 | 1 | 95 | 573 | 89 | 170 | 497 | 1 181 | 648 | 1 660 | 169 | 88 | (NA) |
| | JOHNSON COUNTY, TOTAL | 42 | - | 109 | 742 | 89 | 193 | 572 | 17 156 | 4 302 | 19 223 | 2 235 | 230 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 18 | - | 44 | 382 | 31 | 65 | 258 | 16 047 | 3 286 | 17 332 | 2 001 | 125 | (NA) |
| | LARAMIE COUNTY, TOTAL | 21 | 3 | 202 | 1 099 | 193 | 402 | 1 061 | 3 146 | 1 413 | 4 169 | 390 | 101 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 8 | - | 17 | 120 | 14 | 27 | 103 | 1 181 | 235 | 1 342 | 74 | 18 | (NA) |
| | LINCOLN COUNTY, TOTAL | 25 | 4 | 289 | 1 588 | 230 | 389 | 1 217 | 8 733 | 19 542 | 24 725 | 3 550 | 302 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 18 | 1 | 79 | 482 | 59 | 124 | 387 | 4 828 | 16 273 | 17 684 | 3 417 | 50 | (NA) |
| | NATRONA COUNTY, TOTAL | 141 | 21 | 1 844 | 14 579 | 976 | 2 086 | 6 865 | 41 324 | 17 490 | 52 805 | 6 009 | 1 865 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 62 | 14 | 984 | 7 931 | 554 | 1 098 | 4 064 | 32 425 | 9 842 | 37 338 | 4 929 | 1 203 | (NA) |
| | NIOBRARA COUNTY, TOTAL | 29 | - | 105 | 784 | 84 | 167 | 576 | 2 218 | 1 128 | 2 896 | 450 | 118 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 29 | - | 105 | 784 | 84 | 167 | 576 | 2 218 | 1 128 | 2 896 | 450 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | - | 66 | 534 | 47 | 94 | 351 | 1 701 | 732 | 2 039 | 394 | 80 | (NA) |
| | PARK COUNTY, TOTAL | 62 | 6 | 451 | 3 327 | 346 | 757 | 2 521 | 83 986 | 15 267 | 93 701 | 5 552 | 565 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 59 | 6 | 448 | 3 324 | 343 | 755 | 2 518 | 83 975 | 15 252 | 93 681 | 5 546 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 19 | 3 | 200 | 1 604 | 132 | 262 | 954 | 81 027 | 11 896 | 87 805 | 5 118 | 328 | (NA) |
| | SHERIDAN COUNTY, TOTAL | 16 | 1 | 83 | 379 | 57 | 94 | 263 | 2 030 | 931 | 2 824 | 137 | 122 | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 5 | - | 9 | 75 | 3 | 7 | 25 | 840 | 630 | 1 380 | 90 | (NA) | (NA) |

See footnotes at end of table.

TABLE 3. General Statistics by Selected Industry Groups, for Counties:
1963 and 1958—Continued

| Ind. code | County and industry group | 1963 | | | | | | | | | | 1958 | | |
|--------------|--------------------------------------|-----------------------------|--------------------------------------|---------------|-----------|---|-----------|-----------|-----------------------------|--|--|------------------------------|------------------|-----------------------------|
| | | Establishments ¹ | | All employees | | Production, development, and exploration workers | | | Value added in mining | Cost of supplies, etc., and purchased machinery installed | Value of shipments and receipts | Capital expendi- tures | All employees | Value added in mining |
| | | Total | With 20 employ- ees or more | Total | Payroll | Total | Man-hours | Wages | | | | | | |
| | | (number) | (number) | (number) | (\$1,000) | (number) | (1,000) | (\$1,000) | | | | | | |
| 131 | SUBLETTE COUNTY, TOTAL | 39 | 3 | 272 | 1 852 | 216 | 503 | 1 474 | 26 779 | 9 658 | 28 561 | 7 876 | 257 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 14 | 1 | 104 | 816 | 75 | 178 | 594 | 23 494 | 7 628 | 23 808 | 7 314 | 72 | (NA) |
| 131 | SWEETWATER COUNTY, TOTAL | 78 | 9 | 1 025 | 6 963 | 792 | 1 585 | 5 081 | 45 226 | 17 822 | 54 160 | 8 888 | 870 | (NA) |
| | CRUDE PETROLEUM AND NATURAL GAS. . | 30 | 2 | 157 | 1 162 | 123 | 249 | 911 | 26 384 | 9 608 | 29 230 | 6 762 | (NA) | (NA) |
| | UINTA COUNTY, TOTAL. | 8 | - | 19 | 103 | 18 | 35 | 93 | 1 086 | 2 272 | 3 331 | 27 | (NA) | (NA) |
| 13 | WASHAKIE COUNTY, TOTAL | 41 | 2 | 187 | 1 341 | 164 | 388 | 1 153 | 10 324 | 5 462 | 13 335 | 2 451 | 497 | (NA) |
| | OIL AND GAS EXTRACTION | 41 | 2 | 187 | 1 341 | 164 | 388 | 1 153 | 10 324 | 5 462 | 13 335 | 2 451 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 18 | 1 | 71 | 577 | 62 | 135 | 497 | 7 802 | 2 547 | 8 313 | 2 036 | 242 | (NA) |
| | WESTON COUNTY, TOTAL | 93 | 4 | 313 | 1 810 | 268 | 588 | 1 537 | 9 000 | 7 421 | 12 341 | 4 080 | 357 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 89 | 1 | 242 | 1 419 | 208 | 422 | 1 204 | 7 326 | 6 578 | 9 889 | 4 015 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 52 | 1 | 118 | 731 | 94 | 208 | 584 | 5 609 | 5 545 | 7 333 | 3 821 | 160 | (NA) |
| 14 | NONMETALLIC MINERALS MINING. | 4 | 3 | 71 | 391 | 60 | 166 | 333 | 1 674 | 843 | 2 452 | 65 | (NA) | (NA) |
| | UNDISTRIBUTED, TOTAL | 62 | 1 | 200 | 941 | 168 | 345 | 724 | 1 517 | 1 501 | 2 711 | 307 | 706 | (NA) |
| 13 | OIL AND GAS EXTRACTION | 62 | 1 | 200 | 941 | 168 | 345 | 724 | 1 517 | 1 501 | 2 711 | 307 | (NA) | (NA) |
| 131 | CRUDE PETROLEUM AND NATURAL GAS. . | 15 | - | 21 | 124 | 12 | 24 | 65 | (2) | 587 | 339 | 150 | 452 | (NA) |
| 138 | OIL AND GAS FIELD SERVICES | 47 | 1 | 179 | 817 | 156 | 321 | 659 | 1 615 | 914 | 2 372 | 157 | 254 | (NA) |

Note: For 1963, county industry detail for total employment and payroll may not add to county totals, because of the inclusion of central administrative employees and payroll in the county total but not in the county industry detail.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

¹Companies operating oil and gas field properties were permitted to make only one report for oil and gas field operations in each State. Companies engaged only in performing oil and gas fields or other mining services were permitted to make only one report for all States; these reports were classified on the basis of the principal State in which the service was performed. Such reports contained employment on March 15 and other selected data by the State and county. For such operations, the State total figures shown for number of establishments represent the number of reports received which were classified in the State and those shown for number of establishments in a county represent the number of reports that indicate any operations in the specified county. All county statistics shown which were not reported separately were obtained by allocating the totals for each company on the basis of the reported county data.

²See table 2A footnotes 1 and 2.

³Excludes data for establishments included in manufactures.

⁴Not shown since the cost of supplies, purchased fuels and electricity, contract work, and purchased machinery installed exceed value of shipments and capital expenditures.

| | | | |
|---------------------------|-------------------------------------|---|--|
| 101 Iron ores | 109 Miscellaneous metal ores | 138 Oil and gas field services | 145 Clay and related minerals |
| 102 Copper ores | 110 Anthracite | 141 Dimension stone | 145M Clay and related minerals in manufactures |
| 103 Lead and zinc ores | 11C Anthracite mining services | 141M Dimension stone in manufactures | 147 Chemical and fertilizer minerals |
| 104 Gold and silver ores | 120 Bituminous coal and lignite | 142 Crushed and broken stone | 148 Nonmetallic minerals services |
| 105 Bauxite | 12C Coal mining services | 142M Crushed and broken stone in manufactures | 149 Miscellaneous minerals, n.e.c. |
| 106 Ferroalloy ores | 131 Crude petroleum and natural gas | 144 Sand and gravel | 149M Miscellaneous minerals, n.e.c., in manufactures |
| 108 Metal mining services | 132 Natural gas liquids | 144M Sand and gravel in manufactures | |

See footnotes at end of table.

TABLE 4. Distribution of Mineral Operations by Employment Size Class and by Industry Groups, for Counties: 1963

| State, county, and size class | All mineral operations | | | Number of operations by industry group (See headnote for titles)– | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------|---|--------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-----|-----|-------|
| | Total | Classified in mineral industries ¹ | Included in manufactures | 101 | 102 | 103 | 104 | 105 | 106 | 108 | 109 | 110 | 11C | 120 | 12C | 131 | 132 | 138 | 141 | 141 M | 142 | 142 M | 144 | 144 M | 145 | 145 M | 147 | 148 | 149 | 149 M |
| UINTA COUNTY: TOTAL | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - |
| 0-19 EMPLOYEES | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - | 4 | 1 | 2 | - | - | - | - | - | - | 1 | - | - | - | - | - |
| WASHAKIE COUNTY: TOTAL | 41 | 41 | - | - | - | - | - | - | - | - | - | - | - | - | - | 18 | 1 | 22 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 39 | 39 | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 | 1 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| WESTON COUNTY: TOTAL | 93 | 93 | - | - | - | - | - | - | - | - | - | - | - | - | - | 52 | 2 | 35 | - | - | - | - | 1 | - | 3 | - | - | - | - | - |
| 0-19 EMPLOYEES | 89 | 89 | - | - | - | - | - | - | - | - | - | - | - | - | - | 51 | 2 | 35 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | 3 | - | - | - | - | - |
| UNDISTRIBUTED, TOTAL | 62 | 62 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 47 | - | - | - | - | - | - | - | - | - | - | - | - |
| 0-19 EMPLOYEES | 61 | 61 | - | - | - | - | - | - | - | - | - | - | - | - | - | 15 | - | 46 | - | - | - | - | - | - | - | - | - | - | - | - |
| 20-99 EMPLOYEES | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1 | - | - | - | - | - | - | - | - | - | - | - | - |

Standard Notes: - Represents zero.
n.e.c., Not elsewhere classified.

¹See table 3 footnote 1.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

Appendix A

MINERALS CENSUS REPORT FORMS AND PUNCHCARDS

For the 1963 Census of Mineral Industries, 25 different establishment forms were used. These included 18 standard forms for use by large and multiestablishment companies and 7 short forms used for small establishments. In addition, a few special-purpose and supplementary forms were used.

The standard forms were essentially similar, with adaptations to specific industries. The principal adaptations were made in Item 4, "Man-hours of production, development, and exploration workers, by department or by kind of work;" Item 9, "Purchased fuels consumed;" Item 11, "Supplies used and minerals for preparation," or "Data on minerals received from other establishments for preparation and on minerals mined and prepared in the same establishment;" Item 12, "Products and services;" Item 14, "Type of operation," or "Number of wells operated" (for oil and gas extraction establishments); Item 15, "Number of production, development, and exploration workers, by month" (for industries in which seasonal employment levels were not adequately represented by quarterly figures), or "Cost of drilling and equipping wells" (for oil and gas extraction industries); and Item 16, "State and county data." The State data in item 16 were used for area classification, by State, in reports for an entire State or district or for all operations in the United States, such as oil and gas field and service reports. The county data in item 16 on employment, quantity production, receipts for services, and capital expenditures provided the basis for allocating payrolls, value of shipments and receipts, and certain other data, by county.

Of the standard forms used in this census, Form MC-10B, "Copper, Lead, Zinc, Gold, and Silver Ores" (see pages A-2 to A-5) is representative of forms for operators of metal ores properties. Form MC-12A, "Coal" (see pages A-16 to A-19), was used for operators of anthracite, bituminous coal, and lignite mining properties. Form MC-13A, "Crude Petroleum and Natural Gas" (see pages A-24 to A-29), is representative of the forms for operators of oil and gas extraction properties. Form MC-13C, "Oil and Gas Field Services" (see pages A-30 to A-35), is typical of information requested for mineral

services establishments. For establishments engaged both in operation of oil and gas field properties and in oil and gas field services, a consolidated form, MC-13D, "Oil and Gas Field Operations," was provided, and for operators of offshore oil and gas properties, a supplemental form, MC-13X, "Offshore Oil and Gas Operations," was used. A company summary form, MC-13Y, "Oil and Gas Field Operations," was also used.

The complete instructions provided for form MC-10B are shown on pages A-6 to A-9. The same set of instructions was provided for all operators reporting on standard forms for the metal mining industries. These instructions are very similar to those used for coal mining and nonmetallic minerals, except fuels, mining. There were additional differences between these instructions and those used for the oil and gas extraction industries. A sample of the latter is shown on pages A-20 to A-23. In all, four separate sets of instructions were provided to accompany the standard forms.

Of the seven short forms provided, one was for metal mining, one for coal mining, two for oil and gas extraction, and three were for non-metallic minerals mining. About 21,000 of approximately 41,000 tabulated reports in the 1963 minerals census were prepared on short forms. Such forms were used for very small establishments in almost all industries. Except for oil and gas extraction, data for use on short forms were collected by the Bureau of Mines; forms such as MC-10S, "Metallic Ores," were used to provide the Census Bureau with type of operation and commodity data directly from Bureau of Mines current surveys. Bureau of Mines Form 6-1052 is typical of forms used by the Bureau of Mines to collect other information required by the Census Bureau. For the oil and gas extraction area, all short forms were collected by Census. Form MC-13S-1 is representative of these forms.

Some special-purpose forms and supplementary forms were also used; for example, the form for reporting offshore oil and gas operations referred to earlier. Also, a form was provided for reporting separately operated central offices or auxiliaries. A special short form was used for a supplementary mailing to oil and gas contractors to obtain the names and addresses of oil and gas producers served. Other special short forms were used to complete the coverage of very small and no-employee establishments for which names and addresses were obtained in Bureau of Mines and other lists. (See also Introduction, section 12.)

Typical punchcards used in tabulating the 1963 Census of Mineral Industries data are shown on page A-44.

PENALTIES FOR FAILURE TO REPORT

Form Approved: Budget Bureau No. 41-63205

| U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS | | | | 1963 CENSUS OF MINERAL INDUSTRIES COPPER, LEAD, ZINC, GOLD, AND SILVER ORES | | | | Form MC-10B (1002) | | | | | | | | | | | | | | | | | | | |
|---|----------------|--------------|------------|--|----------------|--------------|------------|--|-----|-----|----|--|-----|--|----|------|-----|-----|----|---|--|--|--|---|--|--|--|
| <p>PLEASE NOTE:</p> <p>A. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming.</p> <p>B. If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.</p> <p>C. A separate report is required from the operator for each mine or separately operated mill or washing plant.</p> <p>D. Please complete and return this form in the envelope provided to the Jeffersonville Census Operations Office, Jeffersonville, Indiana. If filing by due date causes an undue burden, a request for extension should be directed to that office.</p> <p>E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT</p> <p>IMPORTANT: Figures for dollars, man-hours, and KWH should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, please be careful to enter your figures in the CORRECT COLUMNS.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;"> <p>EXAMPLE </p> <p>If the payroll is \$1,125,628.28:</p> <p>Preferred method \$ 1 126 XX</p> <p>Acceptable method \$ 1 125 628 XX</p> </div> <table border="1" style="border-collapse: collapse; text-align: center;"> <tr> <th style="width: 10%;">Mil- lions</th> <th style="width: 10%;">Thou- sands</th> <th style="width: 10%;">Dol- lars</th> <th style="width: 10%;">Cen- ts</th> </tr> <tr> <td>000</td> <td>000</td> <td>000</td> <td>XX</td> </tr> <tr> <td>\$ 1</td> <td>126</td> <td></td> <td>XX</td> </tr> <tr> <td>\$ 1</td> <td>125</td> <td>628</td> <td>XX</td> </tr> </table> </div> | | | | Mil- lions | Thou- sands | Dol- lars | Cen- ts | 000 | 000 | 000 | XX | \$ 1 | 126 | | XX | \$ 1 | 125 | 628 | XX | <p>U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS</p> <p style="text-align: center;">1963 CENSUS OF MINERAL INDUSTRIES COPPER, LEAD, ZINC, GOLD, AND SILVER ORES</p> <p style="text-align: center;">FORM MC-10B (1002)</p> | | | | <p>CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.</p> <p>In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.</p> <p style="text-align: center;"></p> <p style="text-align: center;">MC-10B (1002)</p> | | | |
| Mil- lions | Thou- sands | Dol- lars | Cen- ts | | | | | | | | | | | | | | | | | | | | | | | | |
| 000 | 000 | 000 | XX | | | | | | | | | | | | | | | | | | | | | | | | |
| \$ 1 | 126 | | XX | | | | | | | | | | | | | | | | | | | | | | | | |
| \$ 1 | 125 | 628 | XX | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>ITEM 2A NUMBER OF EMPLOYEES IN 1963</p> | | | | <p>COMPLETE EVERY ITEM (Enter "0" where appropriate)</p> <p>a. Number of production, development, and exploration workers during pay period ended nearest 15th of—</p> <p>(1) March</p> <p>(2) May</p> <p>(3) August</p> <p>(4) November</p> <p>b. Sum of Lines (1) through (4)</p> <p>c. AVERAGE NUMBER (divide sum on Line b by 4)</p> <p>d. All other employees, March 15th</p> <p>e. TOTAL NUMBER OF EMPLOYEES (Sum of Lines c and d) </p> | | | | <p>1963</p> | | | | <p>Key</p> <p>0-1</p> <p>0-2</p> <p>0-3</p> <p>0-4</p> <p>0-5</p> <p>0-6</p> <p>0-7</p> <p>0-8</p> <p>3-1</p> <p>3-2</p> <p>↓</p> | | | | | | | | | | | | | | | |
| <p>ITEM 2B—PRO- PRIETORS AND FIRM MEMBERS IN 1963</p> | | | | <p>a. Total number of proprietors and firm members (not applicable to corporations)</p> <p>b. Number of proprietors and firm members (included in a above) regularly performing production, development, or exploration work at this establishment</p> | | | | <p>Millions</p> <p>Thous.</p> <p>Dols.</p> <p>Cen- ts</p> <p>1-1</p> <p>1-2</p> <p>1-3*</p> | | | | | | | | | | | | | | | | | | | |
| <p>ITEM 3 PAYROLLS IN 1963</p> | | | | <p>a. Production, development, and exploration worker wages</p> <p>b. All other employee salaries and wages</p> <p>c. TOTAL PAYROLL (Sum of Lines a and b) </p> | | | | <p>Millions</p> <p>Thous.</p> <p>Hours</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>XX</p> | | | | | | | | | | | | | | | | | | | |
| <p>ITEM 4 MAN-HOURS OF PRODUC- TION, DEVELOP- MENT, AND EXPLORATION WORKERS BY DEPART- MENTS IN 1963</p> | | | | <p>a. At mine (Mining, exploration, and development)</p> <p>b. At mill or washing plant (including mine shops and yards)</p> <p>c. TOTAL PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS </p> <p>d. Man-hours included above which were spent on exploration and development</p> | | | | <p>Millions</p> <p>Thous.</p> <p>Hours</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>XX</p> <p>XX</p> | | | | | | | | | | | | | | | | | | | |

(Please correct if mailing address has changed)

(1) Street and number at establishment location*

*If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlottesville.

| (2) Place (Check type of place and enter name) | | ITEM 5 COST OF SUPPLIES, MINERALS, RECEIVED FOR TREATMENT, FUELS, ELECTRICITY, CONTRACT WORK, AND MACHINERY IN 1963 | | ITEM 6 CAPITAL EXPENDITURES DURING 1963 (Exclude land and mineral rights) | | ITEM 7 QUANTITY OF ELECTRICITY IN 1963 | | ITEM 8 WATER INTAKE IN 1963 | | ITEM 9 FUELS CONSUMED IN 1963 | | ITEM 10 HORSE-POWER RATING OF POWER EQUIPMENT AT END OF 1963 | |
|---|---------------|--|----|--|----|---|----|--------------------------------|--|----------------------------------|--|---|--|
| Type (Check first applicable one) | Name of place | | | | | | | | | | | | |
| <input type="checkbox"/> City | | | | | | | | | | | | | |
| <input type="checkbox"/> Village or Borough | | | | | | | | | | | | | |
| <input type="checkbox"/> Town | | | | | | | | | | | | | |
| <input type="checkbox"/> Township | | | | | | | | | | | | | |
| <input type="checkbox"/> Other (Specify) | | | | | | | | | | | | | |
| (3) Is the establishment within the legal boundary of the place reported in (2) above? | | Yes | No | | | | | | | | | | |
| (4) County | | | | | | | | | | | | | |
| (5) State | | | | | | | | | | | | | |
| C. FORM OF OWNERSHIP AT END OF 1963 (Check one) | | | | | | | | | | | | | |
| 1 <input type="checkbox"/> Individual proprietor | | | | | | | | | | | | | |
| 2 <input type="checkbox"/> Partnership | | | | | | | | | | | | | |
| 0 <input type="checkbox"/> Corporation (Do not include any form of cooperative association) | | | | | | | | | | | | | |
| 8 <input type="checkbox"/> Cooperative association (corporate or noncorporate) | | | | | | | | | | | | | |
| 9 <input type="checkbox"/> Other (Specify) | | | | | | | | | | | | | |
| D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER | | | | | | | | | | | | | |
| Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941). | | | | | | | | | | | | | |
| E. COMPANY ORGANIZATION | | | | | | | | | | | | | |
| (1) Does this company operate more than one place of business under the same Identification Number shown in D above? | | | | | | | | | | | | | |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | |
| (2) Does this company own or control another company? | | | | | | | | | | | | | |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | |
| (3) Is this company owned or controlled by another company? | | | | | | | | | | | | | |
| Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | |
| (If "Yes," is checked in Part (3), give name and address of owning or controlling company.) | | | | | | | | | | | | | |
| FOR CENSUS USE ONLY | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | | | | | | |

| ITEM 5 COST OF SUPPLIES, MINERALS, RECEIVED FOR TREATMENT, FUELS, ELECTRICITY, CONTRACT WORK, AND MACHINERY IN 1963 | | ITEM 6 CAPITAL EXPENDITURES DURING 1963 (Exclude land and mineral rights) | | ITEM 7 QUANTITY OF ELECTRICITY IN 1963 | | ITEM 8 WATER INTAKE IN 1963 | | ITEM 9 FUELS CONSUMED IN 1963 | | ITEM 10 HORSE-POWER RATING OF POWER EQUIPMENT AT END OF 1963 | |
|---|--|--|---|---|--|---|--|---|--|--|---|
| a. | b. | a. | b. | a. | b. | a. | b. | a. | b. | a. | b. |
| Supplies used and minerals received for milling | Products bought and resold without further processing | Development and exploration of mineral property | Mill or washing plant construction and other construction | Total quantity of water intake (fresh and brackish, including mine water) in this establishment during 1963. (Check ONE box only) | Was your principal source of water, except mine water, from (1) publicly- or privately-owned utility; or (2) another source? | Total quantity of water intake (fresh and brackish, including mine water) in this establishment during 1963. (Check ONE box only) | Was your principal source of water, except mine water, from (1) publicly- or privately-owned utility; or (2) another source? | Coal: Bituminous, lignite, and anthracite | Fuel oil: (1) Distillate, light, Grades 1-4 (P.S. 100, 200) (2) Residual, heavy, Grades 5, 6 (P.S. 300, 400) | Gas: Natural, manufactured, and mixed | Gasoline |
| Purchased fuels consumed | Purchased electricity | Mill or washing plant construction and other construction | New machinery and new equipment (including capitalized repairs) | Under 1 million gallons | 1 through 9 million gallons | 10 through 99 million gallons | 100 million gallons or over | Kind of fuel | Kind of power equipment | Internal combustion engines, steam engines and turbines, and other prime movers: | Electric motors (1 horsepower and over) |
| Contract work done for you by others | TOTAL COST, excluding purchased machinery (Sum of Lines a through e) | Used plant and used equipment acquired from others | TOTAL CAPITAL EXPENDITURES (Sum of Lines a through d) | 4 <input type="checkbox"/> 20 through 99 million gallons | 5 <input type="checkbox"/> 100 million gallons or over | 6 <input type="checkbox"/> 10 through 99 million gallons | 7 <input type="checkbox"/> 100 million gallons or over | Code | Code | (1) In high-way-type equipment | (a) Driving generators |
| Purchased machinery installed (include all new and used machinery, equipment, parts, and used plant not reported above) | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | (b) Not driving generators | (b) Not driving generators |
| | | | | 21 Short ton | 22 Barrel (42 gal.) | 23 Thous. cu. ft. | 24 Thous. gal. | 25 Thous. gal. | 26 Thous. gal. | | |

PENALTIES FOR FAILURE TO REPORT

FORM **MC-10B**
(1002)

U. S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MINERAL INDUSTRIES

COPPER, LEAD, ZINC, GOLD, AND SILVER ORES

PLEASE NOTE:

- A.** The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming.
- B.** If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- C.** A separate report is required from the operator for each mine or separately operated mill or washing plant.
- D.** Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.

IMPORTANT: Figures for dollars, man-hours, and KWH should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the CORRECT COLUMNS.**

EXAMPLE

| Millions | Thousands | Dollars | Cents |
|----------|-----------|---------|-------|
| 000 | 000 | 000 | XX |
| \$ | 1 | 126 | XX |
| \$ | 1 | 125 | XX |

EXAMPLE →

If the payroll is \$1,125,628.28:

Preferred method →

Acceptable method →

ITEM 1. GENERAL INFORMATION

A. NAME OF ESTABLISHMENT

B. PHYSICAL LOCATION OF ESTABLISHMENT

on December 31, 1963. (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number at establishment location *

* If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlestown.

(2) Place (Check type of place and enter name)

| Type (Check first applicable one) | Name of place |
|---|---------------|
|---|---------------|

COMPLETE EVERY ITEM (Enter "0" where appropriate)

| ITEM 2A NUMBER OF EMPLOYEES IN 1963 | a. Number of production, development, and exploration workers during pay period ended nearest 15th of— (1) March _____ (2) May _____ (3) August _____ (4) November _____ | | | | O-1 O-2 O-3 O-4 O-5 O-6 O-7 O-8 |
|--|--|----------|--------|-------|--|
| | b. Sum of lines (1) through (4) | | | | |
| | c. AVERAGE NUMBER (<i>divide sum on Line b by 4</i>) | | | | |
| | d. All other employees, March 15th | | | | |
| | e. TOTAL NUMBER OF EMPLOYEES (Sum of Lines c and d) | | | | |
| ITEM 2B—PROPRIETORS AND FIRM MEMBERS IN 1963 | a. Total number of proprietors and firm members (not applicable to corporations) | | | | 3-1 |
| | b. Number of proprietors and firm members (included in a above) regularly performing production, development, or exploration work at this establishment | | | | 3-2 ↓ |
| ITEM 3 PAYROLLS IN 1963 | a. Production, development, and exploration worker wages | \$ | Thous. | Dols. | Cents |
| | b. All other employee salaries and wages | \$ | | | 1-1 XX 1-2 XX 1-3* XX |
| | c. TOTAL PAYROLL (Sum of Lines a and b) | | | | |
| ITEM 4 MAN-HOURS OF PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKERS BY DEPARTMENTS IN 1963 | a. At mine (Mining, exploration, and development) (1) Underground (2) Open-pit (3) Surface (including mine shops and yards) | Millions | Thous. | Hours | XX XX XX XX XX |
| | b. At mill or washing plant (including auxiliary works for this mill) | | | | 3-3 3-4 3-5 3-6 |
| | c. TOTAL PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS (Sum of a and b) | | | | |
| | d. Man-hours included above which were spent on exploration and development | | | | 3-7 XX 3-8 XX |

| ITEM 13 CHANGES IN OWNERSHIP OR OPERA- TION OF THIS ESTAB- LISHMENT IN 1963 | | (Check proper box and furnish information) | | | | 1963 | | (Check proper box and furnish information) | | | | 1963 | | | | | | | | | | | |
|--|--|---|--|-----------------|--|------------|----|--|--|------------|--|---------------|----|------------|--|------------------|--|------------|--|--------------------|--|------------|--|
| | | | | | | Yes | No | | | | | Yes | No | | | | | | | | | | |
| a. Purchased or leased by you (Enter date, name, and address of former owner or lessee in Item 19.) | | | | | | | | | | | | | | | | | | | | | | | |
| b. Sold or leased (Enter date, name, and address of purchaser or lessee in Item 19.) | | | | | | | | | | | | | | | | | | | | | | | |
| c. Went out of business (no new operator) (Specify date in Item 19.) | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM 14 TYPE OF OPERATION IN 1963 | | Type | | Code | | Key | | Type | | Code | | Key | | | | | | | | | | | |
| a. Mining methods (Check one or more) | | (1) Open-pit or surface placer deposit | | 620 | | 8-2 | | (1) No treatment | | 681 | | 8-2 | | | | | | | | | | | |
| | | (2) Under-ground (Check dominant underground mining method only) | | 631 | | 8-3 | | | | 699 | | 8-3* | | | | | | | | | | | |
| | | Shrinkage stoping | | 632 | | 8-4 | | | | | | | | | | | | | | | | | |
| | | Square setting | | 633 | | 8-5 | | | | | | | | | | | | | | | | | |
| | | Cut-and-fill stoping | | 634 | | 8-6 | | | | | | | | | | | | | | | | | |
| | | Block caving | | 635 | | 8-7 | | | | | | | | | | | | | | | | | |
| | | Sublevel caving, top slicing, and other (Specify) | | 639 | | 8-8 | | | | | | | | | | | | | | | | | |
| ITEM 15 | | Not applicable to this form | | | | | | | | | | | | | | | | | | | | | |
| ITEM 16 METAL CONTENT | | METALS CONTAINED IN COPPER, LEAD, ZINC, LODGE GOLD, AND LODGE SILVER BEARING ORES, BASED ON ASSAY CONTENT OF ORES AND CONCENTRATES REPORTED IN ITEM 12A (Report metal content of production, where both production and shipments are reported in Item 12A) | | | | | | | | | | | | | | | | | | | | | |
| | | Description | | Copper (Pounds) | | DO NOT USE | | Lead (Pounds) | | DO NOT USE | | Zinc (Pounds) | | DO NOT USE | | Gold (Fine ozs.) | | DO NOT USE | | Silver (Fine ozs.) | | DO NOT USE | |
| a. Crude ore and residues not treated at this establishment | | For shipment to smelters | | 1 | | 991 | | | | | | | | | | | | | | | | | |
| | | For shipment or transfer to other mills for treatment | | 2 | | 992 | | | | | | | | | | | | | | | | | |
| b. Concentrates (from materials in Item 12a) | | Copper | | 3 | | 993 | | | | | | | | | | | | | | | | | |
| | | Lead | | 4 | | 994 | | | | | | | | | | | | | | | | | |
| | | Zinc | | 5 | | 995 | | | | | | | | | | | | | | | | | |
| | | Other (Specify) | | 6 | | 996 | | | | | | | | | | | | | | | | | |
| c. Mill bullion and precipitates | | Recovered by amalgamation | | 7 | | 997 | | | | | | | | | | | | | | | | | |
| | | Recovered by cyanidation | | 8 | | 998 | | | | | | | | | | | | | | | | | |
| d. Copper-water precipitates (including precipitates from ore leached in place) | | | | 9 | | 999 | | | | | | | | | | | | | | | | | |
| e. TOTAL QUANTITY (Sum of Lines 1 through 9) | | | | 10 | | | | | | | | | | | | | | | | | | | |
| ITEM 17 | | Not applicable to this form | | | | | | | | | | | | | | | | | | | | | |
| ITEM 18 CHECKS TO ASSURE COMPLETE AND ACCURATE REPORTING | | The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report: | | | | | | | | | | | | | | | | | | | | | |
| | | "Reasonableness" check | | | | | | | | | | | | | | | | | | | | | |
| | | Calculation required for each check | | | | | | | | | | | | | | | | | | | | | |
| | | Item 3a (Production worker wages) ÷ Item 4c (Man-hours of production workers) | | | | | | | | | | | | | | | | | | | | | |
| | | Item 4c (Man-hours of production workers) × 1,000 ÷ Item 2Ac (Average number of production workers) | | | | | | | | | | | | | | | | | | | | | |
| | | Item 3c (Total payroll) ÷ Item 12Ac (Total value of shipments and receipts) | | | | | | | | | | | | | | | | | | | | | |
| | | Item 5f (Total supplies, etc. cost) ÷ Item 12Ac (Total value of shipments and receipts) | | | | | | | | | | | | | | | | | | | | | |
| ITEM 19 | | REMARKS—Please use another sheet of paper and attach to this report. | | | | | | | | | | | | | | | | | | | | | |
| ITEM 20 | | Name of person to be contacted regarding this report. | | | | | | | | | | | | | | | | | | | | | |
| ITEM 21 | | CERTIFICATION—This report is substantially accurate and has been prepared in accordance with instructions. | | | | | | | | | | | | | | | | | | | | | |
| | | PERIOD OF REPORT This report covers the period— | | | | | | | | | | | | | | | | | | | | | |
| | | From To | | | | | | | | | | | | | | | | | | | | | |
| | | Signature of authorized official | | | | | | | | | | | | | | | | | | | | | |
| | | Title | | | | | | | | | | | | | | | | | | | | | |
| | | Address | | | | | | | | | | | | | | | | | | | | | |
| | | Telephone No. | | | | | | | | | | | | | | | | | | | | | |
| | | Date | | | | | | | | | | | | | | | | | | | | | |

U.S. DEPARTMENT OF COMMERCE
Bureau of the Census

1963 CENSUS OF MINERAL INDUSTRIES

REPORTING INSTRUCTIONS FOR METAL MINING

Forms MC-10A, MC-10B, MC-10C, and MC-10D.

In all correspondence with the Census Bureau, please include the 11-digit file number which appears in the address box of the report form. High-speed electronic equipment will be used to identify both the correspondence and the reports in the 1963 Economic Censuses. If your correspondence does not include the Census file number, it will be returned for the addition of that number. Address all correspondence to JEFFERSONVILLE CENSUS OPERATIONS OFFICE, 1201 East 10th Street, Jeffersonville, Indiana.

Please do not mark or mar the two lines of symbols above the address on each form. These symbols or rectangles, which are unique to each establishment, will be photographed and used to record mechanically the receipt of your report form.

As you complete the report for each establishment, please enter the 11-digit file number at the top of the odd-numbered pages as requested.

This booklet is provided to assist you in filling out the enclosed Census of Mineral Industries form(s) MC-10A through MC-10D. Please read these instructions and those appearing on the individual report forms for each item before entering your figures.

A. Who Should Report?

The Census of Mineral Industries reports are required by an Act of Congress (13 U.S.C.). The reports submitted are confidential and may be seen only by sworn Census employees. They may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

Every concern is required to submit a separate Census report for each of its mineral establishments in the United States, including mines under development and treatment or agglomeration plants under construction. Enterprises with more than one establishment must submit a separate report for each establishment operated during all or any part of 1963. Reports should be returned to the Jeffersonville Census Operations Office as shown on the enclosed envelope.

Each report should be submitted by the operator of the establishment, whether he is the owner or is operating it under lease or contract.

Based on Census Bureau records, a report form is provided for each establishment which your company operated in 1963. If you have not received sufficient forms to cover all the mining establishments operated by your company, write for additional copies. Be sure to describe the type of activity carried on at the establishments for which you request additional forms.

1. What Is a Mineral Establishment?

For purposes of the Census, a mineral establishment is defined as a single physical location where mineral operations are performed; for example, a mine only (a mine may be a lode operation, a pit, a beach, or a placer deposit), a mine and treatment plant (such plants may be engaged in milling, washing, agglomeration, or other types of mineral treatment), or a treatment plant only. Since the information reported will be summarized to totals for each industry, State, and county, separate reports are required for different physical locations even though the establishments may be engaged in the same type of mining.

Thus, a mineral establishment represents a working or group of workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or treatment process. Individual shafts, openings, or sites should

not necessarily be considered as individual mines; open-pit mines, however, should be reported separately from underground mines wherever possible. Plants engaged solely in beneficiating, milling, or treating minerals mined at other locations should be reported separately.

In completing your reports, a limited amount of prorating or estimating is acceptable when book records are not readily available.

2. How To Report for Establishments With No Production During 1963

If any of your company's mineral establishments had no production at all during 1963, you should nevertheless return the report for each such establishment with all other information completed and with "None" entered in Item 12. If a mineral location was not in production, but had custodial employees, maintained inventories, or made shipments during the year, the information should be reported in the appropriate section of the report form. The Census includes sites under exploration, mines under development or maintenance only, and plants under construction.

B. What Activities Should Be Reported?

Each report should cover the operations of a mine—underground, open-pit, or placer working—together with its associated shops, auxiliary units, yards, mill, beneficiating, treatment, or washing plant; and offices; or it should cover a mill, or beneficiating or treatment plant not at the site of the mines served, or operated under separate management from the mines, together with its associated shops, auxiliary units, and offices. The report should also include such activities as generating energy for the mine or plant (a central power plant serving two or more mineral establishments should be included in the report for that establishment to which the power plant furnishes the greatest quantity of electric energy); maintenance of mine, plant, and equipment; and receiving, shipping, storage, research, record keeping, health, safety, cafeteria, and other services, when carried on at the same physical location by the mineral establishment.

The report should exclude the operation of company stores, boarding houses, bunk houses, and recreational facilities. The report should also exclude sales branches, research laboratories, and general administrative offices, if they were operated as separate establishments. Such operations should be reported, where applicable, on separate Census of Business, Census of Manufactures, or Central office or auxiliary forms available for such establishments.

Sintering plants operated in conjunction with blast furnaces should be included in your report on a Census of Manufactures form covering blast furnaces. With the exception of

mercury, the report should not include the recovery of metals through smelting or refining. Smelting or refining activities should be reported on applicable Census of Manufactures forms.

C. What Period Should Each Report Cover?

Each report should cover the calendar year 1963. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will involve considerable additional costs, and your fiscal year covers at least 10 months of calendar year 1963 (i.e., ends between October 31, 1963 and February 29, 1964), you may report on a fiscal basis. However, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year. (These calendar year payroll records should be available from your tax records.)

In the certification, the dates should show the exact period which the report covers. Thus, if an establishment began to operate or ceased to operate within the year, the dates should span only that part of the year during which the mine or treatment plant was in operation. If the ownership changed during the year, complete the report only for that part of 1963 in which your company owned and operated the establishment. Report in Item 13 the appropriate information on changes in ownership or operations.

D. How Should Multiple Establishment Companies Determine Transfer Values of Products and Materials From One Establishment to Another ("Interplant Transfers")?

One of the important statistical measures of mining activity is "value added by mining," which is derived by the Census Bureau from the figures reported for value of shipments; capital expenditures; and cost of supplies, purchased fuels and electric energy, contract work, and purchased machinery installed during the year.

In order for statistics on value added and other subjects to be comparable from industry to industry or area to area, it is necessary that the operations of each establishment of a multiple establishment organization be reported as though the establishment were a separate "economic" unit. This means that the value of interplant transfers within a company should include, in addition to direct costs of production, a reasonable proportion of "all other costs (company overhead) and profits." The establishments receiving such transfers should report them as purchased minerals for treatment, supplies, fuels, or electric energy at the same value plus costs of freight and other direct handling charges. (See Item 5.)

ITEMS ON THE REPORT FORM

Item 1. (See instructions on Form.)

Item 1C. Report the form of ownership of the operating company at the end of 1963 for the establishment covered by the report.

Item 1E. Report the company organization of the operating company for the establishment covered by the report.

Item 2A. Number of employees.—(You may follow the definition of employees specified by your State Employment Security Agency.)—Report part-time and full-time employees at the establishment who worked or received pay for any part of the pay period (preferably one week) ending nearest the 15th of the specified months (i.e., March, May, August, and November of 1963 for "production, development, and exploration workers" and March only for "all other employees"). Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of armed forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor or partners. Exclude workers at blast furnaces, smelters, and other manufacturing plants, company stores, boarding houses, bunk houses, and recreational centers.

Item 2A, Lines b and c.—Divide the total on Line b by FOUR and enter the result on Line c; divide by FOUR even if the establishment did not operate in all four periods.

Item 3. Payrolls.—(You should follow the definition of salaries and wages that is used for calculating the withholding tax.) Report the gross earnings paid in calendar year 1963 to employees on the payroll at the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings commissions, dismissal pay, pay bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind, such as board and housing. Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exclude payments to proprietor or partners. Exclude payments to members of armed forces, and pensioners carried on your active payroll.

Exclude here, but include in Item 5a, the cost of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

Item 4.—Man-Hours of Production, Development, and Exploration Workers, by Departments.—The man-hour figures are designed to measure the over-all activity of the establishment during the year on both active and inactive days. The figures should represent all man-hours worked or paid for, except hours for paid vacations, holidays, or sick leave, when the employee was not at the establishment. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

The figures should account for all man-hours worked at this establishment for the entire year by all full-time and part-time production, development, and exploration workers reported in Item 2A. Exclude hours worked by employees of contractors or by proprietors, partners, or firm members.

Item 5. Cost of Supplies, Minerals Received for Treatment, Fuels, Electricity, Contract Work, and Machinery.—The entries in this item are used by the Census Bureau to calculate the 1963 value added by mining. The figures reported should represent the total purchase cost of supplies, minerals received for treatment, milling, or beneficiation, fuels, etc., actually used or processed during 1963. Include items charged to both the current and capital accounts.

Include items consumed by the establishment during the year although purchased prior to 1963; minerals received from other mines for beneficiation, milling, or treatment (these should also be reported separately in Item 11), purchased supplies consumed for production, development, exploration, maintenance, and repair of mine, plant, and equipment, and in plant construction; supplies which you furnished without charge to contractors or sold to employees for use at this establishment; consumption of items received from other establishments of your company for which separate reports are being submitted.

Exclude items received during the year which were not consumed; services such as advertising, telephone, telegraph, cable, insurance, development, and research rendered by other establishments to this establishment, or services of engineering, management, marketing, legal, and other professional consultants, etc.; expenses such as depreciation and depletion charges against plant and equipment, rent and rental allowances, interest payments, royalties, and use of patent fees; supplies (such as timber or lumber), parts, or machinery produced at this establishment; extraordinary losses such as by fire and flood; and wages of your employees engaged in maintenance and repair work (these should be reported in Item 3).

If your records do not show the amounts actually consumed or processed during 1963, the figures to report may be derived from purchase and other records. Cost of purchases may be used if these do not differ significantly from the amounts actually used. However, if consumption of any

major item differs significantly from purchases, the amount used may be estimated by adding beginning-of-year inventories to the amounts purchased and subtracting from this total the cost of supplies on hand at the end of the year.

Cost is delivered cost and should be the amount actually paid or payable after discounts and should include freight and other direct charges incurred by the establishment in acquiring supplies consumed. The cost figures for consumption should represent receipts from all sources, i.e., amounts purchased from other establishments, withdrawn from inventories, or obtained from other establishments of the same company. However, if ores were mined in this establishment in 1963 and also treated in this establishment, the value of the crude ores should not be included in the value figures reported.

For supplies, minerals for treatment, fuels, and electric energy received from other establishments of your company, cost should be checked against the values reported for the establishment producing and transferring the supply (see Section D on page 2 of these Instructions). Freight and other direct handling charges should be added.

Item 5a. Cost of Supplies Used and Minerals Received for Treatment or Agglomeration.—The following list of examples of supplies will indicate the types of items which should be included. The list is shown only as an example. It should not be considered a complete list of the items which should be included.

| | |
|-------------------------------|---|
| Bearings | Hardware |
| Bolts, screws, and nuts | Headlights and lamps |
| Brake blocks and linings | Industrial diamonds |
| Belting and screen cloth | Lubricating oils |
| Carbon and graphite brushes | Lumber |
| Cement | Pipe and fittings |
| Chemical reagents | Piling |
| Dies, jigs, and fixtures | Plates and sheets |
| Drill bits and accessories | Rail and accessories |
| Explosives | Rods and bars |
| First aid and safety supplies | Roof bolts |
| Floor gratings | Stationery, stamps, and office supplies |
| Forgings and castings | Track accessories |
| Fuses | Water purchased |
| Grinding balls and rods | Welding rods, electrodes, and acetylene |
| Gears and pinions | Wire, cable, and chain |
| Hand tools | |

Include only physical goods used or put into production. Exclude services used or overhead charges. The cost of services performed for you by others should be reported in Item 5e.

Item 5b. Cost of Products Bought and Resold Without Further Processing.—Report the cost of all products bought and resold in the same condition as when purchased. (Total sales value of all products resold is to be reported in Item 12A on the line for "Resales.")

Item 5c. Purchased Fuels Consumed.—Report the total amount actually paid or payable during 1963 for all fuels consumed for heat, power, or the generation of electricity. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, wood, and all other fuels, including purchased steam.

Item 5d. Purchased Electricity.—Report the total amount actually paid or payable for electric energy purchased during 1963 from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

Item 5e. Cost of Contract Work Done for You by Others.—Report the total payments made for contract services performed during 1963, including payments for supplies and equipment furnished by the contractor incidental to this work.

Exclude payments to miners paid on a per ton, car, yard, or footage basis. The compensation of such workers should be included in Item 3.

If part of the payment to a contractor was in material produced, an estimate of the value of the service should be reported.

Item 5g. Purchased Machinery Installed.—Include all machinery, equipment, parts for renewals and repairs, and used plant which were purchased, or which were received from other establishments of your company. Include equipment which was installed in the mine, mill, treatment, beneficiating, or washing plant as well as mobile loading and transportation equipment in 1963.

Item 6. Capital Expenditures for This Establishment (Exclude Expenditures for Land and Mineral Rights).—Capital expenditures during 1963 may be determined by the following computation: The cost of exploration work, development work, and additions completed during the year, plus work-in-progress at the end of the year, minus work-in-progress at the beginning of the year. Labor and installation costs should be included whether on contract or by your own forces.

Item 6a. Development and Exploration of Mineral Property.—Report development and exploration outlays which were charged to a capital or Office of Minerals Exploration account. These should include charges to fixed assets for which depreciation or depletion accounts are ordinarily maintained for tax purposes. Include capitalized expenditures for new entries and shafts, construction of rail and other roads, test boring, surveying, and the like.

Item 6b. Treatment or Agglomeration Plant Construction and Other Construction.—Include expenditures for new construction, major additions, and alterations (including improvements and capitalized repairs). Include machinery which is an integral part of a building, such as a crane or a kiln. Include, where capitalized, expenditures for construction by your own employees. Exclude construction of company houses, general recreation facilities, and rail and other roads.

Item 6c. New Machinery and New Equipment.—Report total expenditures at this establishment for new machinery and equipment capitalized during 1963. Include replacements as well as additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment transferred from other establishments of this company. Include the value of equipment produced and used at this establishment. Include all new mining, loading, transportation, and similar equipment for use at mines; treatment plant equipment which is not an integral part of a building; as well as new office machines and fixtures, furniture, cafeteria and change-room furnishings, automobiles, trucks, and similar equipment.

Item 6d. Used Plant and Used Equipment Acquired from Others.—Report total expenditures at this establishment for old or existing plants and for second-hand equipment acquired from others (including the U.S. Government). Include at approximate market value machinery or equipment transferred from other plants of your company.

Item 7. Quantity of Electricity.—All quantities for electricity preferably should be reported in thousands of kilowatt hours. Please be careful to enter your figures in the CORRECT COLUMNS.

Item 7a. Purchased Electricity.—Report the quantity for which cost is reported in Item 5d.

Item 7b. Generated Electricity.—Enter the total quantity of electric energy generated at this establishment (gross less generating station use) during 1963.

When totals are reported on this line, data relating to the activity of the power stations would also be included in other sections of this report. For example, the number of employees assigned to the power station, their wages and man-hours should be included in the figures reported in Items 2, 3, and 4; the cost of fuels used to generate electricity, in Items 5c and 9; and the horsepower of prime movers driving generators in Item 10.

Item 7c. Electricity Sold or Transferred.--Enter the quantity of electric energy, which was also included in Items 7a and 7b, but which was sold to other companies or transferred to other establishments of your company.

Item 8. Water Intake in 1963.--If you do not have exact records of the total quantity of water intake at this establishment, estimate the amount on the basis of the approximate number of gallons for a typical working day and the number of days which your establishment was operated during 1963. Include only primary intake from natural sources; do not include recirculation.

Item 9. Fuels Consumed in 1963.--Report all fuels purchased from other companies or transferred from other establishments of your company. The total cost in Item 9 should agree with Item 5c.

If your gas is billed in therms, convert as follows:

For natural gas: 1,000 therms equal 1 cubic foot.

For manufactured gas: 600 therms equal 1 cubic foot.

Item 9d. Gasoline.--Include gasoline used in automotive equipment such as reported in Item 10.

Item 10. Horsepower Rating of Power Equipment.--Report the total horsepower rating (as indicated on nameplates) of all stationary and mobile equipment in use or available for use at the end of 1963. If more than one rating is shown report brake horsepower, if available.

Include all owned, leased, or rented equipment in use, held for emergency or standby use or temporarily idle (awaiting repairs, installations, etc.) at the mine or plant. Exclude junk.

If book or other records are not available, reasonable estimates are acceptable.

Item 10a. Internal Combustion Engines and Other Prime Movers.--Include all engines and turbines, such as steam engines and turbines, and internal-combustion engines (Diesel, gas, gasoline, etc.), hydroturbines, water wheels, and other prime movers. Include equipment driven by storage batteries.

Report the total horsepower of your equipment; do not report the number of engines or motors.

Item 10a(1). In Highway-type Equipment.--Report on this line only horsepower for transportation equipment that was licensed for highway operation in the sense that you had purchased license plates or tags for the equipment. All non-licensed equipment of similar types should be included in Item 10a(2).

Item 10a(2)(a). Driving Generators.--Report on this line only equipment for producing your own electricity. The electricity generated by this equipment should be reported in Item 7b. Do not include equipment converting alternating to direct current.

If equipment is rated only on the generator, compute the prime mover horsepower by multiplying the kilowatt rating (kw) by 1.34.

Item 10b. Electric Motors.--Report the total horsepower of all motors with a rating of one horsepower or more whether driven by purchased electricity or by electricity generated by you.

Item 11. Supplies Used and Minerals for Treatment in 1963.--This inquiry calls for a breakdown of the supplies used and ores and concentrates received for treatment at this establishment during 1963 reported in Item 5a of this form. Separate figures are required for each item listed. The total cost in Item 11 column E should agree with the total cost reported in Item 5a.

Column D.--Quantity.--Report the quantities actually used in terms of the unit of measure specified in column C. On line 1, report tonnage of crude material or concentrates treated, before removal of refuse and waste.

Column E.--Delivered Cost.--Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed items during 1963. For supply items transferred from other establishments of this company, report values as described in Section D on page 2 of these Instructions. For crude minerals or concentrates transferred, report the value prior to treatment.

Column F.--Minerals from this Mine or Plant.--Include here only the material mined by the mine employees covered by this report or by open-pit contractors mining for your account (for which contract cost is included in Item 5e), and residues from this plant. Do not include in this column material received from other establishments of your company. Such material should be included in columns D and E.

Item 11b, Line 3. Explosive Materials.--Include only explosive material, such as powder. Exclude blasting accessories, such as safety fuse, detonator caps and detonating fuse; exclude breaking agents such as liquid oxygen and ammonium nitrate mixes. The value of such blasting accessories and breaking agents used should be included in Item 11b, Line 5 "All other supplies."

Item 11b, Line 4. Steel Mill Shapes and Forms.--If records for the tonnage of steel mill shapes and forms used are not available, an estimate is acceptable. For example, this figure may be estimated on the basis of the approximate tonnage of steel used per ton of ore produced.

Item 12A. Products and Services in 1963.--Report separately each product listed; do not combine product lines. Include all products of the establishment which were produced or physically shipped from the establishment during 1963, including material withdrawn from stockpiles. Include products shipped on consignment, whether or not sold at the end of 1963. Include all concentrates produced, whether from ores mined at the establishment, purchased, received from other plants of your company, or received for treatment on a custom or toll basis. Include the estimated value of products treated on a custom basis. Include as shipments material produced at this establishment and transferred for treatment or use by your company at other establishments, estimating its approximate value in the manner described in Section D on page 2 of these Instructions. Do not include as crude shipments any crude ore or materials mined at this establishment and also milled or otherwise prepared at this establishment.

For iron and manganese ores (Form MC-10A), report ore merely crushed or screened as direct-shipping ore, and exclude it under beneficiating grade ore and under treated ores. Treated iron and manganese ores for shipment to consumers should include fine-size treated ores to be agglomerated by consumer.

Report weights in the unit of measure specified. Long tons should represent 2,240 pounds; short tons should represent 2,000 pounds. Report total values f.o.b. this mine or treatment plant. Include in the selling value royalty, if any, but exclude transportation charges to the purchaser or user.

Bonuses and other credits for metals contained should be included in the value of shipments and interplant transfers. Penalties for impurities, such as arsenic, should be excluded from the value of shipments.

Items 12B-20. (See instructions on form.)

Item 21. Period of Report.--Enter the month and day of the beginning and the end of period your report covers. If a calendar year report: "From January 1 to December 31, 1963;" if a fiscal year, specify which (such as "From December 1, 1962 to November 30, 1963). If a part-year report is submitted because the establishment was not in operation or under your company's control for the entire year, specify the actual period covered: For example, "January 1, 1963 to August 15, 1963" or "June 1 to December 31, 1963."

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|-----------------------------|-------------|--------------------------|------------|-------------|--------------|------------|--|--|--|--|-----|--------------------------|-----|--|--|--|--|--|--|--|---|--|--|--|-----|--------------------------|------|------------------------|--|--|--|-----|--------------------------|-----|--------------------|--|--|--|-----|--------------------------|-----|---------------------------|--|--|--|-----|--------------------------|-----|------------------|--|--|--|-----|--------------------------|-----|--|--|--|--|-----|--------------------------|------|
| FORM MC-10S (1030) | U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS | <p>CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1963 CENSUS OF MINERAL INDUSTRIES METALLIC ORES | | MC-10S (1030) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>PLEASE NOTE:</p> <p>Complete this form and attach establishment's report. Return this form to Jeffersonville Census Operations Office, Jeffersonville, Indiana, on a flow basis but not later than July 24, 1964.</p> | | <i>(Please correct if mailing address has changed.)</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITEM A—GENERAL INFORMATION | | ITEM F—TYPE OF OPERATION IN 1963 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. NAME OF ESTABLISHMENT | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">1. Mining Methods</td> <td style="width: 10%; text-align: center;">8</td> <td style="width: 10%; text-align: center;">8-1</td> <td style="width: 10%; text-align: center;">0</td> <td style="width: 10%; text-align: center;">Code</td> <td style="width: 10%; text-align: center;">Check</td> <td style="width: 10%; text-align: center;">Key</td> </tr> <tr> <td>a. Open-pit or surface placer deposit</td> <td></td> <td></td> <td></td> <td style="text-align: center;">620</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-2</td> </tr> <tr> <td>b. Underground (<i>Indicate dominant mining method</i>)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(1) Open-stopping (including room-and-pillar and sublevel stopping)</td> <td></td> <td></td> <td></td> <td style="text-align: center;">631</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-3</td> </tr> <tr> <td>(2) Shrinkage stopping</td> <td></td> <td></td> <td></td> <td style="text-align: center;">632</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-4</td> </tr> <tr> <td>(3) Square setting</td> <td></td> <td></td> <td></td> <td style="text-align: center;">633</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-5</td> </tr> <tr> <td>(4) Cut-and-fill stopping</td> <td></td> <td></td> <td></td> <td style="text-align: center;">634</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-6</td> </tr> <tr> <td>(5) Block caving</td> <td></td> <td></td> <td></td> <td style="text-align: center;">635</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-7</td> </tr> <tr> <td>(6) Sublevel caving, top slicing, and other (<i>Specify</i>)</td> <td></td> <td></td> <td></td> <td style="text-align: center;">639</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-8*</td> </tr> </table> | 1. Mining Methods | 8 | 8-1 | 0 | Code | Check | Key | a. Open-pit or surface placer deposit | | | | 620 | <input type="checkbox"/> | 8-2 | b. Underground (<i>Indicate dominant mining method</i>) | | | | | | | (1) Open-stopping (including room-and-pillar and sublevel stopping) | | | | 631 | <input type="checkbox"/> | 8-3 | (2) Shrinkage stopping | | | | 632 | <input type="checkbox"/> | 8-4 | (3) Square setting | | | | 633 | <input type="checkbox"/> | 8-5 | (4) Cut-and-fill stopping | | | | 634 | <input type="checkbox"/> | 8-6 | (5) Block caving | | | | 635 | <input type="checkbox"/> | 8-7 | (6) Sublevel caving, top slicing, and other (<i>Specify</i>) | | | | 639 | <input type="checkbox"/> | 8-8* |
| 1. Mining Methods | 8 | 8-1 | 0 | Code | Check | Key | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Open-pit or surface placer deposit | | | | 620 | <input type="checkbox"/> | 8-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Underground (<i>Indicate dominant mining method</i>) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (1) Open-stopping (including room-and-pillar and sublevel stopping) | | | | 631 | <input type="checkbox"/> | 8-3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (2) Shrinkage stopping | | | | 632 | <input type="checkbox"/> | 8-4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (3) Square setting | | | | 633 | <input type="checkbox"/> | 8-5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (4) Cut-and-fill stopping | | | | 634 | <input type="checkbox"/> | 8-6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (5) Block caving | | | | 635 | <input type="checkbox"/> | 8-7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| (6) Sublevel caving, top slicing, and other (<i>Specify</i>) | | | | 639 | <input type="checkbox"/> | 8-8* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. PHYSICAL LOCATION OF ESTABLISHMENT | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">2. Treatment Methods</td> <td style="width: 10%; text-align: center;">8</td> <td style="width: 10%; text-align: center;">8-1</td> <td style="width: 10%; text-align: center;">1</td> <td style="width: 10%; text-align: center;">Code</td> <td style="width: 10%; text-align: center;">Check</td> <td style="width: 10%; text-align: center;">Key</td> </tr> <tr> <td>a. No treatment</td> <td></td> <td></td> <td></td> <td style="text-align: center;">681</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-2</td> </tr> <tr> <td>b. Flotation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. Cyanidation and other (<i>Specify</i>)</td> <td></td> <td></td> <td></td> <td style="text-align: center;">699</td> <td style="text-align: center;"><input type="checkbox"/></td> <td style="text-align: center;">8-3*</td> </tr> </table> | 2. Treatment Methods | 8 | 8-1 | 1 | Code | Check | Key | a. No treatment | | | | 681 | <input type="checkbox"/> | 8-2 | b. Flotation | | | | | | | c. Cyanidation and other (<i>Specify</i>) | | | | 699 | <input type="checkbox"/> | 8-3* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. Treatment Methods | 8 | 8-1 | 1 | Code | Check | Key | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. No treatment | | | | 681 | <input type="checkbox"/> | 8-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Flotation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. Cyanidation and other (<i>Specify</i>) | | | | 699 | <input type="checkbox"/> | 8-3* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. If engaged only in development, exploration, or assessment work, state the mineral for which the work was undertaken. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**THIS FORM IS NOT COMPLETE UNTIL THE
ABOVE NAMED ESTABLISHMENT'S REPORT IS
ATTACHED.**

ITEM G—PRODUCTS AND SERVICES OF THIS ESTABLISHMENT IN 1963

Enter separately each product listed; do not combine product lines. Include all products of this establishment which were physically shipped from this establishment during 1963. Include products shipped on consignment whether or not sold at the end of 1963.

Enter the quantity of products as specified in Column (B-2). Report the total selling value, f.o.b. mine or mill, of each kind of ore. Do not include charges for delivery, freight, etc. Estimates are acceptable whenever exact figures are not available.

| Line number | Products and services (A) | Census product code (B-1) | Unit of measure (B-2) | Production (Quantity) (C) | Shipments and interplant transfers (B-3) | | Value f.o.b. mine or mill (E) | |
|-------------|--------------------------------|------------------------------|--------------------------|------------------------------|---|----------------------------------|----------------------------------|---------------------|
| | | | | | Quantity (D) | Value f.o.b. mine or mill (E) | Thou- sands 000 | Dol- lars 000 |
| | | | | | | | | |
| 1 | IRON | | | | | | | |
| 2 | Crude ores | 10111 01 16 | Long ton | | | | | XX |
| 3 | Treated ores | 10112 01 96 | | | | | | XX |
| 4 | COPPER | | | | | | | |
| 5 | Crude ores | 10211 01 95 | | | | | | XX |
| 6 | Concentrates | 10212 01 75 | | | | | | XX |
| 7 | LEAD | | | | | | | |
| 8 | Crude ores | 10321 01 62 | Short ton | | | | | XX |
| 9 | Concentrates | 10322 01 42 | | | | | | XX |
| 10 | ZINC | | | | | | | |
| 11 | Crude ores | 10331 01 50 | | | | | | XX |
| 12 | Concentrates | 10332 01 30 | | | | | | XX |
| 13 | LODE GOLD | | | | | | | |
| 14 | Crude ores | 10421 01 41 | | | | | | XX |
| 15 | Mill bullion (metal contained) | 10423 01 01 | Fine ounce | | | | | XX |
| 16 | PLACER GOLD | | | | | | | |
| 17 | Crude ores | 10433 07 69 | | | | | | XX |
| 18 | LODE SILVER | | | | | | | |
| 19 | Crude ores | 10441 01 27 | Short ton | | | | | XX |
| 20 | Mill bullion (metal contained) | 10443 01 87 | Fine ounce | | | | | XX |
| 21 | PLACER SILVER | | | | | | | |
| 22 | Crude (undried) | 10443 07 57 | | | | | | XX |
| 23 | Dried | 10511 01 22 | | | | | | XX |
| 24 | Calcined or activated | 10512 01 02 | | | | | | XX |
| 25 | MANGANESE | | | | | | | |
| 26 | Crude ores | 10512 03 62 | Long ton | | | | | XX |
| 27 | Treated ores | 10621 01 99 | | | | | | XX |
| 28 | | 10622 01 79 | | | | | | XX |

INSTRUCTIONS

Item B—Number of Persons Engaged in 1963—

Report on **Line 1** the number of proprietors and partners who regularly performed manual (production, development, or exploration) work at this operation in 1963. On **Line 2** report the total number of employees paid during the pay-period ended nearest March 15, 1963. If an unincorporated business, exclude proprietors and partners from this reported total but include them on Line

Item C—Payrolls in 1963—Report the total paid as salaries, wages, bonuses, commissions, and other remunerations during 1963. If an unincorporated business, exclude payments to proprietors or partners. The definition of salaries and wages used for calculating the withholding tax may be followed.

Item D—Selected Costs in 1963—Report on **Line 1** the cost of supplies, minerals purchased for preparation and purchased fuels and electric energy consumed

during 1963, which were used (a) directly to produce products; (b) as operating supplies; and (c) for exploration, development, repair, and maintenance. Report on **Line 2** the cost of stripping, drilling, and other services performed for you on contract by others. Report on **Line 4** the cost of all new and used machinery, equipment, parts, and used plant installed in 1963, which were not reported on Line 1.

Item E—Capital Expenditures in 1963—Include the portions of the costs reported in Items C and D, above, that were capitalized during 1963.

Item F—Total Value of all ores and concentrates shipped in 1963—Report the value of ores and concentrates as shipped from your mine or mill. Do not include transportation charges beyond the mine or mill. Do not include milling or smelting charges for work performed at other establishments.

REMARKS

PENALTIES FOR FAILURE TO REPORT

FORM MC-12A
(1201)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MINERAL INDUSTRIES

COAL

PLEASE NOTE:

- The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming.
- If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- A separate report is required from the operator for each underground mine, strip-pit, auger mine, culm bank, dredge, or separately operated preparation plant.
- Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.

E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

IMPORTANT: Figures for dollars, man-hours, and KWH should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the CORRECT COLUMNS.**

EXAMPLE

If the payroll is \$1,125,628.28:

Preferred method →

Acceptable method →

| Mil- lions | Thou- sands | Dol- lars | Cents |
|---------------|----------------|--------------|-------|
| 000 | 000 | 000 | XX |
| \$ 1 | 126 | | XX |
| \$ 1 | 125 | 628 | XX |

ITEM 1. GENERAL INFORMATION

A. NAME OF ESTABLISHMENT

B. PHYSICAL LOCATION OF ESTABLISHMENT on December 31, 1963. (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number at establishment location*

*If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlottesville.

Form Approved: Budget Bureau No. 41-6320

CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.



MC-12A (1201)

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

(Please correct if mailing address has changed)

| COMPLETE EVERY ITEM (Enter "0" where appropriate) | | 1963 | | | | Key |
|---|--|--------------|--------|-------|-------|------|
| ITEM 2A NUMBER OF EMPLOYEES IN 1963 | a. Number of production, development, and exploration workers during pay period ended nearest 15th of— | (1) March | | | | 0-1 |
| | | (2) May | | | | 0-2 |
| | | (3) August | | | | 0-3 |
| | | (4) November | | | | 0-4 |
| ITEM 2B—PRO- PRIETORS AND FIRM MEMBERS IN 1963 | b. Sum of Lines (1) through (4) | | | | | 0-5 |
| | c. Average number (divide sum on Line b by 4) | | | | | 0-6 |
| | d. All other employees, March 15th | | | | | 0-7 |
| | e. TOTAL NUMBER OF EMPLOYEES (Sum of lines c and d) | → | | | | 0-8 |
| ITEM 3 PAYROLLS IN 1963 | a. Total number of proprietors and firm members (not applicable to corporations) | | | | | 3-1 |
| | b. Number of proprietors and firm members (included in Line a above) regularly performing production, development, or exploration work at this establishment | | | | | 3-2 |
| ITEM 4 MAN-HOURS OF PRODUC- TION, DEVELOP- MENT, AND EXPLORATION WORKERS BY DEPART- MENTS IN 1963 | a. Production, development, and exploration worker wages | Millions | Thous. | Dols. | Cents | 1-1 |
| | b. All other employee salaries and wages | \$ | | | | 1-2 |
| | c. TOTAL PAYROLL (Sum of Lines a and b) | → | | | | 1-3* |
| | a. At mine | Millions | Thous. | Hours | | 3-3 |
| | (1) Underground (mining and development) | | | | | 3-4 |
| | (2) Strip-pit, auger, culm bank, and dredge | | | | | 3-5 |
| | (3) Surface (including mine shops and yards) | | | | | 3-6 |
| | b. At preparation plant (including auxiliary works for this plant) | | | | | |
| | c. TOTAL PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS (Sum of lines a and b) | → | | | | 3-7 |
| | d. Man-hours included above which were spent on exploration and development | | | | | 3-8 |

| ITEM 11 SUPPLIES USED AND COAL FOR PREPARATION | | 7 | 7-1 | 7-2 | 7-3X | 7-5 |
|---|---|---------------|----------------------------------|-------------------------------|--|--|
| Description A | | Line No. B | Census material code C | Unit of measure D | Received from other establishments of this company, purchased from others, and coal received for custom preparation Quantity E | Quantity of raw coal from this mine F |
| a. Coal for prepara- tion | Raw coal mechanically cleaned by wet-washing or pneumatic methods (Enter cleaned product in Item 12A, Line 3) | 1 | 1211 91 1 | Short ton | Millions \$ | XX |
| | Raw coal prepared only by other methods such as mechanical crushing, screening, or sizing (Exclude coal reported in Line 1 above. Enter prepared product in Item 12A, Line 4) | 2 | 1211 93 7 | | \$ | XX |
| b. Supplies used | Explosive materials (exclude blasting accessories and breaking agents) | 3 | 2892 00 8 | Pound | \$ | XX |
| | Steel mill shapes and forms (such as rails, wheels, track accessories, roof bolts, plates, pipe, tubing, piling, drill steel bars, other bars, sheets, strip, wire, wire products, and structural shapes) | 4 | 3312 01 4 | Short ton | \$ | XX |
| | Round or hewn woods products and stumpage (such as logs, bolts, hewn cross ties, hewn or round mine timbers and ties) | 5 | 2411 00 7 | | \$ | XX |
| | All other supplies (such as blasting accessories and breaking agents, forgings and castings, drill bits, other tools and parts, and lubricating and treating oils) (Exclude purchased machinery which should be reported in Item 5g) | 6 | 9700 99 8 | | \$ | XX |
| c. TOTAL COST (Sum of Lines 1 through 6; should be the same as Item 5a) | | 7 | | | \$ | XX |
| The Bureau of Mines (U.S. Department of the Interior) collects detailed figures on coal. This item and Item 12C provide summary figures which will serve to relate the statistics compiled from the Census of Mineral Industries to the statistics compiled from Bureau of Mines surveys. For comparable items the same data should be reported both to the Bureau of Mines and the Bureau of the Census. | | | | | | |
| ITEM 12A PRODUCTS AND SERVICES IN 1963 | | 8 | 8-1X | 8-3 | 8-4 | |
| Description A | | Line No. B | Census product code B-1 | Quantity (Short tons) D | Shipments and interplant transfers Value f.o.b. this establishment E | |
| a. Products shipped (Report coal produced and produced and used at this establishment for power or heat in Item 9h. Report coal production, by type of mining, in Item 12C.) | Raw coal (Report only coal mined at this establishment; include hand-picked and hand-screened coal) Shipments to coal preparation plants (If coal was sold on a clean-coal basis, report total tonnage prior to allowance for refuse and waste. Enter name and location of plant or plants at which coal was prepared in Item 19 of this report) | 1 | 1211 03 52 | | Millions \$ | XX |
| | All other shipments | 2 | 1211 01 92 | | \$ | XX |
| | Prepared coal (Report all coal prepared at this establishment; include coal prepared on a custom basis for others) Mechanically cleaned by wet-washing or pneumatic methods | 3 | 1211 01 72 | | \$ | XX |
| | Other preparation only, such as crushing, screening, or sizing | 4 | 1211 03 32 | | \$ | XX |
| | Other products of this establishment (Specify kind and unit of measure if not short tons) Clay | 5 | 14590 01 27 | | \$ | XX |
| | Other (Specify kind and unit) | 6 | | | \$ | XX |
| b. Receipts for services performed for other establishments (such as hauling, stripping, shaft sinking, pumping, and shop work—exclude amounts received for custom preparation of coal) | | 7 | 12808 01 07 | | \$ | XX |
| c. Resales—Coal purchased and resold without further processing | | 8 | 99989 05 56 | | \$ | XX |
| d. TOTAL VALUE (Sum of Lines 1 through 8) | | 9 | 77000 00 88 | | \$ | XX |
| ITEM 12B CUSTOM WORK IN 1963 | | 9-2 | | | | |
| | | | Code | Millions \$ | Thousands \$ | XX |
| | | | 911 | \$ | | XX |

Amount received or due for custom preparation of coal. (The shipments of such coal should be included in Item 12A, Lines 3 and 4.)

a. Report net marketable coal produced from this mine in 1963, excluding washery and other refuse. Include coal mined for you by contractor at strip pits, auger mines, or culm banks (report contract cost in Item 5e) exclude coal purchased for preparation or resale. Report in short tons of 2,000 pounds.

| | | | | | | | |
|-------------|---|-----------------------------|---|-----------------------------|-----|-------------------------------|-----|
| 9-1 | | 9-2 | | Strip-pit | | Coal mined, by type of mining | |
| Census code | A | Total coal mined, all types | B | Mined by your own employees | 9-3 | Mined by outside contractor | 9-4 |
| 880 | | | | | | | |
| 9-5 | | 9-6 | | 9-7 | | 9-8 | |
| Census code | | A | | Mined by your own employees | | Mined by outside contractor | |
| 880 | | | | | | | |

b. Proportion of net coal production (Item 12C, a, Column B) which was used by your company in this or other establishments for power, heat, or as a material for manufactured products.

| | | | | | | | | | | | | |
|-----|-----|-----|---|-------------|---|---------------|---|---------------|---|---------------|---|----------------------|
| 9-1 | 882 | 9-2 | 1 | 100 percent | 2 | 90-99 percent | 3 | 50-89 percent | 4 | 10-49 percent | 5 | Less than 10 percent |
|-----|-----|-----|---|-------------|---|---------------|---|---------------|---|---------------|---|----------------------|

(Check proper box and furnish information)

| | | | |
|---|----|---|----|
| 1963 | | 1963 | |
| Yes | No | Yes | No |
| a. Purchased or leased by you (Enter date, name, and address of former owner or lessee in Item 19.) | | d. Reorganized (partnership change or change in corporate status) | |
| b. Sold or leased (Enter date, name, and address of purchaser or lessee in Item 19.) | | e. Started new business (no previous operator) | |
| c. Went out of business (no new operator) (Specify date in Item 19.) | | f. Remained the same as in previous year | |

| | | | | | |
|---------------------------------------|-----|--|-----|--|-----|
| a. Mining methods (Check one or more) | | b. Preparation method (Check one or more) | | c. Contract stripping, auger mining, and culm bank loading | |
| (1) Strip-pit | 620 | (1) No preparation except hand-picking or hand-screening | | (1) Strip-pit | 620 |
| (2) Underground | 630 | (2) Mechanical cleaning (wet-washing or pneumatic) | 685 | (2) Underground | 630 |
| (3) Auger | 621 | (3) Mechanical crushing | 686 | (3) Auger | 621 |
| (4) Culm bank | 622 | (4) Mechanical screening and sizing | 687 | (4) Culm bank | 622 |
| (5) Dredge | 623 | (5) Other preparation (Specify) | | (5) Dredge | 623 |

Number of production, development, and exploration workers in pay period ended nearest 15th of each month in 1963 (Figures for March, May, August, and November should be the same as Item 2A, Lines (1) through (4))

| | | | | | | | |
|-------------|---------|----------|-----------|---------|----------|----------|-----|
| Census code | 9-1 | 9-2 | 9-3 | 9-4 | 9-5 | 9-6 | 9-7 |
| 722 | January | February | March | April | May | June | |
| 733 | July | August | September | October | November | December | |

Not applicable to this form

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report: a. Review the report carefully to see that no items are omitted for the year being covered. b. Calculate the four "reasonableness" checks described below, entering the figures for each, and review the results. c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.

| | | | | | |
|---|---|-------------------------------------|--|----------------------------|--|
| "Reasonableness" check | | Calculation required for each check | | Resulting figures for 1963 | |
| (1) Average hourly wages per production worker | Item 3a (Production worker wages) ÷ Item 4c (Man-hours of production workers) | | | \$ | |
| (2) Hours worked per year per production worker | Item 4c (Man-hours of production workers) × 1,000 ÷ Item 2Ac (Average number of production workers) | | | Hrs. | |
| (3) Salaries and wages per dollar of shipments and receipts | Item 3c (Total payroll) ÷ Item 12Ad (Total value of shipments and receipts) | | | ¢ | |
| (4) Supplies, etc., cost per dollar of shipments and receipts | Item 5f (Total supplies, etc. cost) ÷ Item 12Ad (Total value of shipments and receipts) | | | ¢ | |

REMARKS—Please use another sheet of paper and attach to this report.

Name of person to be contacted regarding this report. Address

CERTIFICATION—This report is substantially accurate and has been prepared in accordance with instructions.

| | | | |
|--------------------------------|----|----------------------------------|-------|
| PERIOD OF REPORT | | Address | |
| This report covers the period— | | | |
| From | To | Signature of authorized official | Title |
| | | | Date |

1963 CENSUS OF MINERAL INDUSTRIES

REPORTING INSTRUCTIONS FOR COAL MINING

Form MC-12A.

In all correspondence with the Census Bureau, please include the 11-digit file number which appears in the address box of the report form. High-speed electronic equipment will be used to identify both the correspondence and the reports in the 1963 Economic Censuses. If your correspondence does not include the Census file number, it will be returned for the addition of that number. Address all correspondence to JEFFERSONVILLE CENSUS OPERATIONS OFFICE, 1201 East 10th Street, Jeffersonville, Indiana.

Please do not mark or mar the two lines of symbols above the address on each form. These symbols or rectangles, which are unique to each establishment, will be photographed and used to record mechanically the receipt of your report form.

As you complete the report for each establishment, please enter the 11-digit file number at the top of the odd-numbered pages as requested.

This booklet is provided to assist you in filling out the enclosed Census of Mineral Industries form MC-12A. Please read these instructions and those appearing on the individual report form for each item before entering your figures.

A. Who Should Report?

The Census of Mineral Industries reports are required by an Act of Congress (13 U.S.C.). The reports submitted are confidential and may be seen only by sworn Census employees. They may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

Every concern is required to submit a separate Census report for each of its mineral establishments in the United States, including mines under development and preparation plants or tipples under construction. Enterprises with more than one establishment must submit a separate report for each establishment operated during all or any part of 1963. Reports should be returned to the Jeffersonville Census Operations Office as shown on the enclosed envelope.

Each report should be submitted by the operator of the establishment, whether he is the owner or is operating it under lease or contract.

Based on Census Bureau records, a report form is provided for each establishment which your company operated in 1963. If you have not received sufficient forms to cover all the mineral establishments operated by your company, write for additional copies. Be sure to describe the type of activity carried on at the establishments for which you request additional forms.

1. What Is a Mineral Establishment?

For purposes of the Census, a mineral establishment is defined as a single physical location where mineral operations are conducted; for example, a mine only (a mine may be an underground, strip-pit, auger, culm-bank, or dredge operation), a mine and preparation plant, or a preparation plant only. Since the information reported will be summarized to totals for each industry, State, and county, separate reports are required for different physical locations even though the establishments may be engaged in the same type of mining.

Thus, a mineral establishment represents a working or group of workings at a given locality in which operations are conducted as a unit or are unified by common management or joint handling of some part of the mining or preparation process. Individual shafts, openings, or sites should not necessarily be considered as individual mines; strip-pit or auger mines and culm banks, however, should be reported separately from underground mines wherever possible. Plants engaged solely in preparing coal mined at other locations should be reported separately.

In completing your reports, a limited amount of prorating or estimating is acceptable when book records are not readily available.

2. How To Report for Establishments With No Production During 1963

If any of your company's mining establishments had no production at all during 1963, you should nevertheless return the report for each such establishment with all other information completed and with "None" entered in Item 12. If a mining location was not in production, but had custodial employees, maintained inventories, or made shipments during the year, the information should be reported in the appropriate section of the report form. The Census includes sites under exploration, mines under development or maintenance only, and plants under construction.

B. What Activities Should Be Reported?

Each report should cover the operations of a mine—underground, strip-pit, auger, culm bank, or dredge—together with its associated tipple, shops, auxiliary units, yards, cleaning plant, breaker, washery, or other preparation plant; and offices; or it should cover a preparation plant not at the site of the mines served, or operated under separate management from the mines, together with its associated shops, yards, auxiliary units, and offices. The report should also include such activities as generating energy for the mine or plant (a central power plant serving two or more mineral establishments should be included in the report for that establishment to which the power plant furnishes the greatest quantity of electric energy); maintenance of mine, plant, and equipment; and receiving, shipping, storage, research, record keeping, health, safety, cafeteria, and other services, when carried on at the same physical location by the mineral establishment. The report should exclude the operation of company stores, boarding houses, bunk houses, and recreational facilities. The report should also exclude sales branches, research laboratories, and general administrative offices, if they were operated as separate establishments. Such operations should be reported, where applicable, on separate Census of Business, Census of Manufactures, or central office or auxiliary forms available for such establishments.

The report should not include the production of coal chemicals, coke, fuel briquets, or packaged fuel. Such operations should be reported on Census of Manufactures forms.

C. What Period Should Each Report Cover?

Each report should cover the calendar year 1963. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will involve considerable additional costs, and your fiscal year covers at least 10 months of calendar year 1963 (i.e., ends between October 31, 1963 and February 29,

1964), you may report on a fiscal basis. However, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year. (These calendar year payroll records should be available from your tax records.)

In the certification, the dates should show the exact period which the report covers. Thus, if an establishment began to operate or ceased to operate within the year, the dates should span only that part of the year during which the plant was in operation. If the ownership changed during the year, complete the report only for that part of 1963 in which your company owned and operated the establishment. Report in Item 13 the appropriate information on changes in ownership or operations.

D. How Should Multiple Establishment Companies Determine Transfer Values of Products and Materials From One Establishment to Another ("Interplant Transfers")?

One of the important statistical measures of mining activity is "value added by mining," which is derived by the Census Bureau from the figures reported for value of shipments; capital expenditures; and cost of supplies, purchased fuels and electric energy, contract work, and purchased machinery installed during the year.

In order for statistics on value added and other subjects to be comparable from industry to industry or area to area, it is necessary that the operations of each establishment of a multiple establishment organization be reported as though the establishment were a separate "economic" unit. This means that the value of interplant transfers within a company should include, in addition to direct costs of production, a reasonable proportion of "all other costs (company overhead) and profits." The establishments receiving such transfers should report them as purchased coal for preparation, supplies, fuels, or electric energy at the same value plus costs of freight and other direct handling charges. (See Item 5.)

ITEMS ON THE REPORT FORM

Item 1. (See instructions on Form.)

Item 2A. Number of employees.--(You may follow the definition of employees specified by your State Employment Security Agency.)--Report part-time and full-time employees at the establishment who worked or received pay for any part of the pay period (preferably one week) ending nearest the 15th of the specified months (i.e., March, May, August, and November of 1963 for "production, development, and exploration workers" and March only for "all other employees").

Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of armed forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor or partners. Exclude workers at coke ovens, fuel briquet plants, and other manufacturing plants, company stores, boarding houses, bunk houses, and recreational centers.

Item 2A, lines b and c.--Divide the total on Line b by FOUR and enter the result on Line c; divide by FOUR even if the establishment did not operate in all four periods.

Item 3. Payrolls.--(You should follow the definition of salaries and wages that is used for calculating the withholding tax.) Report the gross earnings paid in calendar year 1963 to employees on the payroll at the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings commissions, dismissal pay, pay bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind, such as board and housing. Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exclude payments to proprietor or partners. Exclude payments to members of armed forces, and pensioners carried on your active payroll.

Exclude here, but include in Item 5a, the cost of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

Item 4.--Man-Hours of Production, Development, and Exploration Workers, by Departments.--The man-hour figures are designed to measure the over-all activity of the establishment during the year on both active and inactive days. The figures should represent all man-hours worked or paid for, except hours for paid vacations, holidays, or sick leave, when the employee was not at the establishment. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

The figures should account for all man-hours worked at this establishment for the entire year by all full-time and part-time production, development, and exploration workers reported in Item 2A. Exclude hours worked by employees of contractors or by proprietors, partners, or firm members.

Item 5. Cost of Supplies, Coal Received for Preparation, Fuels, Electricity, Contract Work, and Machinery.--The entries in this item are used by the Census Bureau to calculate the 1963 value added by mining. The figures reported should represent the total purchase cost of supplies, coal received for preparation, fuels, etc., actually used or processed during 1963. Include items charged to both the current and capital accounts.

Include items consumed by the establishment during the year although purchased prior to 1963; coal received from other mines for preparation (this should also be reported separately in Item 11), purchased supplies consumed for production, development, exploration, maintenance, and repair of mine, plant, and equipment, and in plant construction; supplies which you furnished without charge to contractors or sold to employees for use at this establishment; consumption of items received from other establishments of your company for which separate reports are being submitted.

Exclude items received during the year which were not consumed; services such as advertising, telephone, telegraph, cable, insurance, development, and research rendered by other establishments to this establishment, or services of engineering, management, marketing, legal, and other professional consultants, etc.; expenses such as depreciation and depletion charges against plant and equipment, rent and rental allowances, interest payments, royalties, and use of patent fees; supplies (such as timber or lumber), parts, or machinery produced at this establishment; extraordinary losses such as by fire and flood; and wages of your employees engaged in maintenance and repair work (these should be reported in Item 3).

If your records do not show the amounts actually consumed or processed during 1963, the figures to report may be derived from purchase and other records. Cost of purchases may be used if these do not differ significantly from the amounts actually used. However, if consumption of any major item differs significantly from purchases, the amount used may be estimated by adding beginning-of-year inventories to the amounts purchased and subtracting from this total the cost of supplies on hand at the end of the year.

Cost is delivered cost and should be the amount actually paid or payable after discounts and should include freight and other direct charges incurred by the establishment in acquiring supplies consumed. The cost figures for consumption should represent receipts from all sources, i.e., amounts purchased from other establishments, withdrawn from inventories, or obtained from other establishments of the same company. However, if coal was mined at this establishment in 1963 and also prepared at this establishment, the value of the raw coal before preparation should not be included in the value figures reported.

For supplies, coal for preparation, fuels, and electric energy received from other establishments of your company, cost should be checked against the values reported for the establishment producing and transferring the supply (see Section D above). Freight and other direct handling charges should be added.

Item 5a. Cost of Supplies Used and Coal Received for Preparation.--The following list of examples of supplies will indicate the types of items which should be included. The

list is shown only as an example. It should not be considered a complete list of the items which should be included.

| | |
|-------------------------------|---|
| Bearings | Hardware |
| Bolts, screws, and nuts | Headlights and lamps |
| Brake blocks and linings | Industrial diamonds |
| Belting and screen cloth | Jacks |
| Carbon and graphite brushes | Lubricating oils |
| Cement | Lumber and timber purchased |
| Chemical reagents | Picks |
| Coal spraying oils | Pipe and fittings |
| Dies, jigs, and fixtures | Piling |
| Drill bits and accessories | Plates and sheets |
| Explosives | Rail and accessories |
| First aid and safety supplies | Rods and bars |
| Floor gratings | Roof bolts |
| Forgings and castings | Stationery, stamps, and office supplies |
| Fuses | Track accessories |
| Grinding balls and rods | Water purchased |
| Gears and pinions | Welding rods, electrodes, and acetylene |
| Hammers | Wire, cable, and chain |
| Hand tools | |

Include only physical goods used or put into production. Exclude services used or overhead charges. The cost of services performed for you by others should be reported in Item 5e.

Item 5b. Cost of Coal Bought and Resold Without Further Processing.—Report the cost of all coal bought and resold in the same condition as when purchased. (Total quantity and resale value of such coal is to be reported in Item 12Ac).

Item 5c. Purchased Fuels Consumed.—Report the total amount actually paid or payable during 1963 for all purchased fuels consumed for heat, power, or the generation of electricity. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel oil, liquefied petroleum gas, gasoline, wood, and all other fuels, including purchased steam. Coal produced and used at this establishment for heat, power, or the generation of electricity should not be included here but should be reported in Item 9b.

Item 5d. Purchased Electricity.—Report the total amount actually paid or payable for electric energy purchased during 1963 from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

Item 5e. Cost of Contract Work Done for You by Others.—Report the total payments made for contract services performed during 1963, including payments for supplies and equipment furnished by the contractor incidental to this work.

Exclude payments to miners on your payroll but paid on a per ton, car, yard, or footage basis. The compensation of such workers should be included in Item 3.

If part of the payment to a contractor was in material produced, an estimate of the value of the service should be reported.

Include payments to contractors who stripped or auger-mined coal or loaded culm-bank material for your account.

Exclude payments to suppliers who mined for their own account on property owned or leased by them and who paid royalties either directly or indirectly on the coal mined. Such payments to suppliers should be reported in Item 5b, if the coal was bought for resale without further processing or in Item 11a, if the coal was purchased for preparation at this establishment.

Item 5g. Purchased Machinery Installed.—Include all machinery, equipment, parts for renewals and repairs, and used plant which were purchased, or which were received from other establishments of your company. Include equipment which was installed in the mine or preparation plant as well as mobile loading and transportation equipment in 1963.

Item 6. Capital Expenditures for This Establishment (Exclude Expenditures for Land and Mineral Rights).—Capital ex-

pensures during 1963 may be determined by the following computation: The cost of exploration work, development work, and additions completed during the year, plus work-in-progress at the end of the year, minus work-in-progress at the beginning of the year. Labor and installation costs should be included whether on contract or by your own forces.

Item 6a. Development and Exploration of Mineral Property.—Report development and exploration outlays which were charged to a capital account. These should include charges to fixed assets for which depreciation or depletion accounts are ordinarily maintained for tax purposes. Include capitalized expenditures for new entries and shafts, construction of rail and other roads, test boring, surveying, overburden stripping, and the like.

Item 6b. Preparation Plant Construction and Other Construction.—Include expenditures for new construction, major additions, and alterations (including improvements and capitalized repairs). Include machinery which is an integral part of a building, such as a hoist, crusher, separator, or drier. Include, where capitalized, expenditures for construction by your own employees. Exclude construction of company houses, general recreation facilities, and rail and other roads.

Item 6c. New Machinery and New Equipment.—Report total expenditures at this establishment for new machinery and equipment capitalized during 1963. Include replacements as well as additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment transferred from other establishments of this company. Include the value of equipment produced and used at this establishment. Include all new mining, loading, transportation, and similar equipment for use at mines; preparation plant equipment which is not an integral part of a building; as well as new office machines and fixtures, furniture, cafeteria and change-room furnishings, automobiles, trucks, and similar equipment.

Item 6d. Used Plant and Used Equipment Acquired From Others.—Report total expenditures at this establishment for old or existing plants and for secondhand equipment acquired from others (including the U.S. Government). Include at approximate market value machinery or equipment transferred from other plants of your company.

Item 7. Quantity of Electricity.—All quantities for electricity preferably should be reported in thousands of kilowatt hours. Please be careful to enter your figures in the CORRECT COLUMNS.

Item 7a. Purchased Electricity.—Report the quantity for which cost is reported in Item 5d.

Item 7b. Generated Electricity.—Enter the total quantity of electric energy generated at this establishment (gross less generating station use) during 1963.

When totals are reported on this line, data relating to the activity of the power stations would also be included in other sections of this report. For example, the number of employees assigned to the power station, and their wages and man-hours, should be included in the figures reported in Items 2, 3, and 4; the cost of purchased fuels used to generate electricity, in Items 5c and 9; and the horsepower of prime movers driving generators, in Item 10.

Item 7c. Electricity Sold or Transferred.—Enter the quantity of electric energy, which was also included in Items 7a and 7b, but which was sold to other companies or transferred to other establishments of your company.

Item 8. Water Intake in 1963.—If you do not have exact records of the total quantity of water intake at this establishment, estimate the amount on the basis of the approximate number of gallons for a typical working day and the number of days which your establishment was operated during 1963. Include only primary intake from natural sources; do not include recirculation.

Item 9. Fuels Consumed in 1963.—Report only fuels used at this establishment for power or heat. Do not include here coal received for preparation (see Items 5a and 11) or for resale (see Item 5b). The total cost in Item 9 should agree with Item 5c.

Item 9a. Purchased Fuels.—Report fuels purchased from other companies or transferred from other establishments of your company and used at this establishment for power or heat.

If your gas is billed in therms, convert as follows:

For natural gas: 1,000 therms equal 1 cubic foot.

For manufactured gas: 600 therms equal 1 cubic foot.

Item 9a(4). Gasoline.—Include gasoline used in automotive equipment such as reported in Item 10.

Item 9b. Coal Produced and Used.—Report the tonnage of coal that was produced at this establishment and used for power or heat.

Item 10. Horsepower Rating of Power Equipment.—Report the total horsepower rating (as indicated on nameplates) of all stationary and mobile equipment in use or available for use at the end of 1963. If more than one rating is shown, report brake horsepower, if available.

Include all owned, leased, or rented equipment in use, held for emergency or standby use or temporarily idle (awaiting repairs, installation, etc.) at the mine or plant. Exclude junk.

If book or other records are not available, reasonable estimates are acceptable.

Item 10a. Internal Combustion Engines and Other Prime Movers.—Include all engines and turbines, such as steam engines and turbines, internal-combustion engines (Diesel, gas, gasoline, etc.), hydroturbines, water wheels, and other prime movers. Include equipment driven by storage batteries. Report the total horsepower of your equipment; do not report the number of engines or motors.

Item 10a(1). In Highway-type Equipment.—Report on this line only horsepower for transportation equipment that was licensed for highway operation in the sense that you had purchased license plates or tags for the equipment. All non-licensed equipment of similar types should be included in Item 10a(2).

Item 10a(2)(a). Driving Generators.—Report on this line only equipment for producing your own electricity. The electricity generated by this equipment should be reported in Item 7b. Do not include rectifiers converting purchased alternating current to direct current.

If equipment is rated only on the generator, compute the prime mover horsepower by multiplying the kilowatt rating (kw) by 1.34.

Item 10b. Electric Motors.—Report the total horsepower of all motors with a rating of one horsepower or more whether driven by purchased electricity or by electricity generated by you.

Item 11. Supplies Used and Coal for Preparation in 1963.—This inquiry calls for a breakdown of the supplies used and coal received for preparation at this establishment during 1963 reported in Item 5a of this form. Separate figures are required for each item listed. The total cost in Item 11, column E, should agree with the total cost reported in Item 5a.

Column D. Quantity.—Report the quantities actually used in terms of the unit of measure specified in column C. On lines 1 and 2, report tonnage of raw coal for preparation, before removal of refuse and waste.

Column E. Delivered Cost.—Report amounts actually paid or payable after discounts, and include freight and direct charges incurred in acquiring the quantities of the listed items during 1963. For supply items transferred from other establishments of this company, report values as described in Section D on page 2 of these instructions. For raw coal transferred, report the value prior to preparation.

Column F. Raw Coal From This Mine.—Include here only the raw coal mined by the mine employees covered by this report or by strip-pit, auger, or culm-bank contractors mining for your account, for which contract cost is reported in Item 5e and net production is reported in Item 12C. Do not include in this column the coal received from other establishments of your company. Such coal should be included in columns D and E.

Item 11b, line 3. Explosive Materials.—Include only explosive material, such as powder. Exclude blasting accessories, such as safety fuse, detonator caps, and detonating fuse; exclude

breaking agents such as liquid oxygen and ammonium nitrate mixes. The value of such blasting accessories and breaking agents used should be included in Item 11b, line 6 "All other supplies."

Item 11b, line 4. Steel Mill Shapes and Forms.—If records for the tonnage of steel mill shapes and forms used are not available, an estimate is acceptable. For example, this figure may be estimated on the basis of the approximate tonnage of steel used per ton of ore produced.

Item 12A. Products and Services in 1963.—Report separately each product listed; do not combine lines. Include all products of this establishment in 1963. Include products shipped on consignment, whether or not sold at the end of 1963. Include products transferred to other establishments of your company (such as to cleaning plants at other locations, coke ovens at this or other locations, other manufacturing establishments, or separate sales branches). Report all coal in short tons of 2,000 pounds. Report the net total values f.o.b. this establishment. Include in the selling value royalty, if any, but exclude freight or trucking charges to the purchaser or user.

Item 12Aa. Products Shipped (lines 1-4).—Do not include as shipments coal which was produced at this mine or plant and used at this establishment for power or heat. Such coal should be reported in Item 9b. Include as a shipment, however, coal produced at this mine or plant and used by your company at power plants not operated in conjunction with this establishment. Also, include as a shipment all coal transferred to other establishments such as coke ovens or other manufacturing plants, estimating its value, if necessary, in the manner described in Section D on page 2 of these Instructions.

Do not include as shipments the raw coal prepared at this establishment; include as shipments only the clean coal recovered from such raw coal.

If raw coal was sold or transferred to another establishment for preparation, report on line 1 the total tonnage of raw coal before allowance for refuse and waste. Do not include under "Prepared coal" on lines 3 or 4 the clean coal recovered from this raw coal at the other establishment.

On lines 1 and 2, include only coal mined at this establishment. On lines 3 and 4, include all coal which was prepared at this establishment but do not include any coal purchased and resold without any further processing. The quantity and value of such resales should be reported on line 8.

Item 12C. Net Production of Coal in 1963, by Type of Mining.—If your establishment report covers a producing mine (underground, strip-pit, auger, culm bank, or dredge), report the net marketable coal produced from the mine in 1963, excluding washery and other refuse. Include coal produced at this establishment and used for power or heat. Include coal mined for your account by strip-pit, auger, or culm-bank contractors, but do not include as production from this mine underground coal mined by other than your own employees. Any underground coal mined at this location by other companies or their employees should be reported in Items 5, 11 and 12A as coal purchased for preparation or for resale without further processing.

The quantity of net marketable coal from this mine may be equal to but never greater than the quantity of coal shipped from this establishment plus coal used for power or heat, except insofar as there are differences due to changes in stocks. On the other hand, the quantity of coal shipped, plus that used at the mine or plant, may be greater than the net coal mined if (1) Raw coal was sold or transferred for cleaning at other establishments, or (2) Raw coal from other mines was prepared at this establishment.

Items 13-20 (See instructions on form.)

Item 21. Period of Report.—Enter the month and day of the beginning and the end of period your report covers. If a calendar year report: "From January 1 to December 31, 1963;" if a fiscal year, specify which (such as "From December 1, 1962 to November 30, 1963). If a part-year report is submitted because the establishment was not in operation or under your company's control for the entire year, specify the actual period covered: For example, "January 1, 1963 to August 15, 1963" or "June 1 to December 31, 1963."

PENALTIES FOR FAILURE TO REPORT

FORM MC-13A
(1301)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MINERAL INDUSTRIES CRUDE PETROLEUM AND NATURAL GAS

PLEASE NOTE:

- The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming.
- If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- A separate report is required for each State (including offshore operations) or for each district in Texas, Louisiana, and New Mexico, in which you operated or drilled oil or gas wells or performed exploration work for oil or gas. The report should be on a gross basis for all leases operated by you, but should exclude your interest in leases operated by others. Oil and gas field services performed for others (on a contract, fee, or other basis) in the State or district should be included.
- Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.

E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

IMPORTANT: Figures for dollars, man-hours, and KWH should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, please be careful to enter your figures in the CORRECT COLUMNS.

EXAMPLE

If the payroll is \$1,125,628.28:

Preferred method →

Acceptable method →

| Mil- lions | Thou- sands | Dol- lars | Cen- ts |
|---------------|----------------|--------------|------------|
| 000 | 000 | 000 | XX |
| \$ 1 | 126 | | XX |
| \$ 1 | 125 | 628 | XX |

ITEM 1. GENERAL INFORMATION

A. NAME AND ADDRESS OF OPERATING COMPANY

Name

Address (street and number)

City

State

CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.



MC-13A (1301)

(Please correct if mailing address has changed)

| COMPLETE EVERY ITEM (Enter "0" where appropriate) | | 1963 | | | | Key |
|---|--|--------------|--------|-------|------|------|
| ITEM 2A NUMBER OF EMPLOYEES IN 1963 | a. Number of production, development, and exploration workers during pay period ended nearest 15th of— | (1) March | | | | 0-1 |
| | | (2) May | | | | 0-2 |
| | | (3) August | | | | 0-3 |
| | | (4) November | | | | 0-4 |
| | b. Sum of Lines (1) through (4) | | | | | 0-5 |
| | c. AVERAGE NUMBER (divide sum on Line b by 4) | | | | | 0-6 |
| | d. All other employees, March 15th | | | | | 0-7 |
| | e. TOTAL NUMBER OF EMPLOYEES (Sum of Lines c and d) | | | | | 0-8 |
| ITEM 2B—PRO- PRIETORS AND FIRM MEMBERS IN 1963 | a. Total number of proprietors and firm members (not applicable to corporations) | | | | | 3-1 |
| | b. Number of proprietors and firm members (included in Line a above) regularly performing production, development, or exploration work at this establishment | | | | | 3-2 |
| ITEM 3 PAYROLLS IN 1963 | a. Production, development, and exploration worker wages | Millions | Thous. | Dols. | Cts. | 1-1 |
| | b. All other employee salaries and wages | \$ | | | | 1-2 |
| | c. TOTAL PAYROLL (Sum of Lines a and b) | \$ | | | | 1-3* |
| ITEM 4 MAN-HOURS OF PRODUC- TION, DEVEL- OPMENT, AND EXPLORATION WORKERS BY DEPARTMENTS IN 1963 | a. Operating and maintaining wells | Millions | Thous. | Hours | | 3-3 |
| | b. Drilling wells and rig building | | | | | 3-4 |
| | c. Exploration work (except drilling wells) | | | | | 3-5 |
| | d. Other work (Specify) | | | | | 3-6 |
| | e. TOTAL PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS (Sum of Lines a through d) | | | | | 3-7* |

| ITEM 11 SUPPLIES USED AND GAS PUR- CHASED FOR GAS LIFT AND REPRESSUR- ING IN 1963 | Description A | Line No. | Code B | Unit of measure C | Quantity D | 7-3 Delivered cost E | |
|--|--|-------------|-------------------------------|------------------------------|---------------|-------------------------------------|-------|
| | | | | | | Millions Thous. | Cents |
| | Gas purchased for gas lift and repressuring (Exclude gas reported in Item 12, Lines 8 and 9) | 1 | 1313 05 | 5 | | | XX |
| | Steel mill shapes and forms (such as casing, tubing, pipe, plates, sheets, piling, drill steel bars, wire, and structural shapes) | 2 | 3312 01 | 4 | | | XX |
| | Other supplies used (such as drill bits and reamers, drilling fluid materials, cement, lumber, parts for re- 'newals and repairs, lubricants, and water purchased) | 3 | 9700 99 | 8 | | | XX |
| | TOTAL COST (Sum of Lines 1, 2, and 3; should be the same as Item 5a) | 4 | | | | | XX |
| ITEM 12 PRODUCTS AND SERV- ICES IN 1963 | Description A | Line No. | Census product code B-1 | Unit of measure B-2 | Quantity D | 8-4 Total value at wells E | |
| a. Products of this establish- ment | Crude petroleum , including field condensate and drips (Report volumes corrected to 60° F.) | | | | | Millions | Dolls |
| | Shipped | 1 | 13120 03 | 58 | | | XX |
| | Used in lease operations for power, heat, or other purposes, including losses (also report oil used for power or heat in Item 9, Line b(1).) | 2 | 13120 06 | 88 | | | XX |
| | Natural gas (Adjust all volumes to a pressure base of 14.65 pounds absolute at 60° F.) | 3 | 13130 01 | 86 | | | XX |
| | Gas from oil wells (casinghead) | 4 | 13130 03 | 46 | | | XX |
| | Gas from gas wells | 5 | 13130 09 | 16 | | | XX |
| | TOTAL PRODUCTION (Sum of Lines 3 and 4) | | | | | | |
| | Gross Disposition | | | | | | |
| | Shipped | 6 | 13130 12 | 56 | | | XX |
| | To distributors and transmission companies and net to natural gas liquids plants (In value include the producer's realization from all products in the gas delivered to natural gas liquids plants.) | 7 | 13130 22 | 46 | | | XX |
| | To consumers (domestic, commercial, and industrial, incl. to own refineries) | 8 | 13130 37 | 26 | | | XX |
| | Used in lease operations for power, heat, or gas lift (net) (also report gas used for power or heat in Item 9, Line b(2).) | 9 | 13130 52 | 16 | | | XX |
| | Returned to underground formations for repressuring, pressure maintenance, and cycling (exclude gas reported in Item 11, Line 1) | 10 | 13130 62 | 06 | | | XX |
| Net change in underground storage | 11 | 13130 72 | 96 | | | XX | |
| Vented to air, burned in flares, and other losses | 12 | 13130 82 | 86 | | | XX | |
| TOTAL DISPOSITION (Sum of Lines 6 through 11; should be same as Line 5 above) | 13 | | | | | | |
| Other products shipped (Specify kind and unit of measure) | | | | | | | |
| b. Amount received or due for work or services performed for other establishments | Drilling oil, gas, dry, or service wells (Enter number and kinds of wells drilled, total footage drilled, and total cost of drilling these wells in the "Remarks" section of this form) | 14 | 13818 01 | 83 | | | XX |
| | Drilling in, spudding in, and tailing in | 15 | 13818 02 | 63 | | | XX |
| | Reworking wells | 16 | 13818 04 | 23 | | | XX |
| | Pumping wells but not operating leases | 17 | 13848 17 | 17 | | | XX |
| Other work (Specify) | 18 | | | | | | |
| c. TOTAL VALUE (Sum of Lines 1 through 18) | | 19 | 77000 00 | 88 | | | XX |
| ITEM 13 CHANGES IN OWNERSHIP OR OPERA- TION OF THIS ESTAB- LISHMENT DURING 1963 | (Check proper box and furnish information) | | | | | | 1963 |
| a. Purchased or leased by you | | | | | | | Yes |
| b. Sold or leased | | | | | | | No |
| c. Went out of business (no new operator) | | | | | | | |
| d. Reorganized (partnership change or change in corporate status) | | | | | | | |
| e. Started new business (no previous operator) | | | | | | | |
| f. Remained the same as in previous year | | | | | | | |

**ITEM 14
NUMBER
OF
WELLS
OPER-
ATED**

Report below the number of oil and gas wells (including condensate wells) operated by you in the State (or contiguous offshore territories) designated in Item 1-B. If a well produced both oil (or condensate) and gas, classify it according to its more valuable total product; do not report it as both an oil and gas well. Service wells (gas injection, water injection, brine disposal, etc.) should be reported on Lines 6, 7, and 16. On Line 12, report oil and gas wells converted to service wells. Count multiple completions as one well.

| Item A | Line No. 9-1 | Code B | 9-2 | | 9-3 | | 9-4 | | 9-5 | 9-6 | 9-7 | 9-8 |
|---|--------------------|------------|------------|----------|----------|-----------------|------|-----------------|-----|-----|-----|-----|
| | | | Total C | Oil D | Gas E | Number of wells | Item | Number of wells | | | | |
| Producing during December 1962 | 1 | 921 | | | | | | | | | | |
| Shut-in or idle during all of December 1962 | 2 | 922 | | | | | | | | | | |
| Drilled and completed in 1963 | | | | | | | | | | | | |
| Producing wells | 3 | 923 | | | | | | | | | | |
| Multiple completions included in 3 above | 4 | 924 | | | | | | | | | | |
| Dry holes | 5 | 925 | | | | | | | | | | |
| Service wells (Exclude converted wells) | 6 | 926 | | | | | | | | | | |
| Wells recompleted in 1963 | 7 | 927 | | | | | | | | | | |
| Purchased (or leased) in 1963 | 8 | 928 | | | | | | | | | | |
| TOTAL (Sum of Lines 1, 2, 3, and 8) | 9 | 920 | | | | | | | | | | |

Report here the designated costs of drilling and equipping all wells completed in 1963, as reported under Item 14, Lines 3, 5, and 6, including the cost of dry holes and service wells drilled. Report only the costs specified; do not include other costs such as taxes, interest on investment, etc. Do not reduce costs by test well and dry hole contributions.

| 9 | Kind of wells drilled | 9-1 | 9-2 | | 9-3 | | 9-4 | | 9-5 | | 9-6 | | 9-7 | | 9-8 | | |
|--|-----------------------|------|-------------------------|-------------------|-------------------------|---------------------------------------|-------------------------|--|-------------------------|-------------------------------|-------------------------|--|-------------------------|---|-------------------------|--|----|
| | | | Wells completed in 1963 | | Wells completed in 1963 | | Wells completed in 1963 | | Wells completed in 1963 | | Wells completed in 1963 | | Wells completed in 1963 | | Wells completed in 1963 | | |
| Line No. | | Code | | Number of wells 2 | | Total footage drilled (Thousand feet) | | Payments to drilling contractors, including day work and turnkey | | Payments to other contractors | | Cost of casing, tubing, and well equipment, except payment to contractors for such equipment 3 | | All other costs of drilling and equipping | | TOTAL COST (Sum of Columns E, F, G, and H) | |
| A | | B | | C | | D | | E | | F | | G | | H | | I | |
| Oil wells | 1 | 951 | | | | | | | \$ | | \$ | | \$ | | \$ | | \$ |
| Gas wells | 2 | 952 | | | | | | | \$ | | \$ | | \$ | | \$ | | \$ |
| Dry holes 4 | 3 | 953 | | | | | | | \$ | | \$ | | \$ | | \$ | | \$ |
| Service wells 5 | 4 | 954 | | | | | | | \$ | | \$ | | \$ | | \$ | | \$ |
| TOTAL (Sum of Lines 1 through 4; Column C should be the sum of Item 14, Column C, Lines 3, 5, and 6) | | 5 | 950 | | | | | | \$ | | \$ | | \$ | | \$ | | \$ |
| Cost of lease equipment beyond the Christmas tree INCLUDED ABOVE, such as artificial lift equipment, separators, heater-treaters, flow lines, and storage tanks: | | | | | | | | | | | | | | | | | |
| Oil wells | 6 | 955 | | | | | | | \$ | | \$ | | | | | | \$ |
| Gas wells | 7 | 956 | | | | | | | \$ | | \$ | | | | | | \$ |
| Service wells 5 | 8 | 957 | | | | | | | \$ | | \$ | | | | | | \$ |
| TOTAL (Sum of Lines 6 through 8) | | 9 | 959 | | | | | | \$ | | \$ | | | | | | \$ |

¹ Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing, and hauling materials; include machinery and tool charges or rentals, deduct the value of material salvaged after use.

² Count multiple completions as one well.

³ Include cost of delivering and installing equipment, but do not duplicate costs reported under payments to contractors (Columns E and F). Deduct value of your equipment that was salvaged and was used again, but include cost of salvaging. Include tubing, wellhead fittings, gas traps, flow tanks, etc., and drilling derrick retained over well after completion, or special-production derrick.

⁴ Include wells drilled and abandoned without commercial production during 1963, even if they were converted to service wells.

⁵ Include gas-injection, water-injection, and brine-disposal wells. Exclude all converted wells. Exclude dry holes drilled with intent of commercial production even if converted to service wells in 1963.

PENALTIES FOR FAILURE TO REPORT

Form Approved: Budget Bureau No. 41-6320

FORM MC-13C
(1303)

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MINERAL INDUSTRIES OIL AND GAS FIELD SERVICES

CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

PLEASE NOTE:

- The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming.
- If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- Only one report is required for your oil and gas field work for others in all States (including offshore operations). If you performed such work for your own account or operated leases, report data for such activity in Item 14 of this form.
- Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.

E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

KEEP THIS COPY FOR YOUR FILES

PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS

MC-13C (1303)

(Please correct if mailing address has changed)

IMPORTANT: Figures for dollars, man-hours, and KWH should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, please be careful to enter your figures in the CORRECT COLUMNS.

EXAMPLE

| | | | |
|---------------|----------------|--------------|-------|
| Mil- lions | Thou- sands | Dol- lars | Cents |
| 000 | 000 | 000 | XX |
| \$ 1 | 126 | | XX |
| \$ 1 | 125 | 628 | XX |

If the payroll is \$1,125,628.28:
Preferred method →
Acceptable method →

ITEM 1. GENERAL INFORMATION

A. NAME AND ADDRESS OF CONTRACTING COMPANY

Name

Address (street and number)

City

State

COMPLETE EVERY ITEM (Enter "0" where appropriate)

| ITEM 2A NUMBER OF EMPLOYEES IN 1963 | a. Number of production, development, and exploration workers during pay period ended nearest 15th of— (1) March (2) May (3) August (4) November | 1963 | Key |
|---|--|--|---|
| | | | 0-1 |
| | | | 0-2 |
| | | | 0-3 |
| | | | 0-4 |
| | | | 0-5 |
| | | | 0-6 |
| | | | 0-7 |
| | | | 0-8 |
| | | | 3-1 |
| | | | 3-2 |
| | | | ↓ |
| ITEM 2B—PRO- PRIETORS AND FIRM MEMBERS IN 1963 | a. Total number of proprietors and firm members (not applicable to corporations) b. Number of proprietors and firm members (included in Line a above) regularly performing pro- duction, development, or exploration work at this establishment | | |
| ITEM 3 PAYROLLS IN 1963 | a. Production, development, and exploration worker wages b. All other employee salaries and wages c. TOTAL PAYROLL (Sum of Lines a and b) | Millions \$ \$ \$ | Cents XX XX XX 1-1 1-2 1-3* |
| ITEM 4 MAN-HOURS OF PRODUC- TION, DEVEL- OPMENT, AND EXPLORATION WORKERS BY KIND OF WORK IN 1963 | a. Operating and maintaining wells b. Drilling wells and rig building c. Exploration work (except drilling wells) d. Other work (Specify) e. TOTAL PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS (Sum of Lines a through d) | Millions Thous. Thous. Thous. | Cents XX XX XX XX XX XX XX 3-3 3-4 3-5 3-6 3-7* |

B. LOCATION OF OPERATIONS

(1) List States in order of importance in which you performed oil and gas field services for others during 1963.

(2) If only one State is listed above, did you perform such services in more than one county? (Check one)

☐ Yes ☐ No

(If "No" give name of county)

County

C. FORM OF OWNERSHIP OF OPERATING COMPANY AT END OF 1963 (Check one)

1 ☐ Individual proprietor

2 ☐ Partnership

3 ☐ Corporation (Do not include any form of cooperative association)

4 ☐ Cooperative association (corporate or noncorporate)

5 ☐ Other (Specify)

D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941).

E. COMPANY ORGANIZATION OF OPERATING COMPANY

(1) Does this company operate more than one place of business under the same Identification Number shown in D above?

Yes ☐ No ☐

(2) Does this company own or control another company?

☐ Yes ☐ No

(3) Is this company owned or controlled by another company?

☐ Yes ☐ No

(If "Yes," is checked in Part (3), give name and address of owning or controlling company.)

FOR CENSUS USE ONLY

| | | | | | | | |
|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

ITEM 5 COST OF SUPPLIES, PRODUCTS FOR RESALE, PURCHASED FUELS, ELECTRIC ENERGY, SUBCONTRACT WORK, AND MACHINERY IN 1963

a. Purchased supplies used

b. Products bought and resold without further processing

c. Purchased fuels consumed

d. Purchased electricity

e. Subcontract work done for you by others

f. **TOTAL COST, excluding purchased machinery (Sum of Lines a through e)**

g. Purchased machinery installed (include all new and used machinery, equipment, parts, and used plant not reported above)

ITEM 6 CAPITAL EXPENDITURES DURING 1963 (Exclude land and mineral rights)

a. New structures and additions to fixed plant (including capitalized repairs and improvements)

b. New machinery and new equipment (including capitalized repairs)

c. Used plant and used equipment acquired from others

d. **TOTAL CAPITAL EXPENDITURES (Sum of Lines a through c)**

ITEM 7 QUANTITY OF ELECTRICITY IN 1963

a. Purchased electricity (for which cost is reported in Item 5d)

b. Generated electricity (gross less generating station use)

c. Electricity sold or transferred to other establishments (Report its value in Item 12, Line 18)

a. Total quantity of water intake (fresh and brackish, including water for flooding and water used that was produced with oil) in this establishment during 1963. (Check ONE box only)

1 ☐ Under 1 million gallons

2 ☐ 1 through 9 million gallons

3 ☐ 10 through 99 million gallons

4 ☐ 20 through 99 million gallons

5 ☐ 100 million gallons or over

6 ☐ Utility

7 ☐ Other source

ITEM 9 FUELS CONSUMED IN 1963

a. Fuel oil:

(1) Distillate, light, Grades 1-4, (P.S. 100, 200)

(2) Residual, heavy, Grades 5, 6, (P.S. 300, 400)

b. Gas: Natural, manufactured, and mixed

c. Gasoline

d. Other fuels: Liquefied petroleum gas, coke, wood, and other

e. **TOTAL COST OF PURCHASED FUELS CONSUMED (Sum of Lines a through d; should be same as Item 5c)**

ITEM 10 HORSEPOWER RATING OF EQUIPMENT AT END OF 1963

Kind of power equipment

a. Internal combustion engines, steam engines and turbines, and other prime movers:

(1) In highway-type equipment

(2) In all other equipment

(a) Driving generators

(b) Not driving generators

b. Electric motors (1 horsepower and over)

| Item | Thousands of Dollars | Cent |
|--|----------------------|----------|
| a. Purchased supplies used | \$ | XX 2-1 |
| b. Products bought and resold without further processing | \$ | XX 2-2 |
| c. Purchased fuels consumed | \$ | XX 2-3 |
| d. Purchased electricity | \$ | XX 2-4 |
| e. Subcontract work done for you by others | \$ | XX 2-5 |
| f. TOTAL COST, excluding purchased machinery (Sum of Lines a through e) | \$ | XX 2-6 |
| g. Purchased machinery installed (include all new and used machinery, equipment, parts, and used plant not reported above) | \$ | XX 2-7* |
| a. New structures and additions to fixed plant (including capitalized repairs and improvements) | \$ | XX 4-1 |
| b. New machinery and new equipment (including capitalized repairs) | \$ | XX 4-2 |
| c. Used plant and used equipment acquired from others | \$ | XX 4-3 |
| d. TOTAL CAPITAL EXPENDITURES (Sum of Lines a through c) | \$ | XX 4-4 |
| a. Purchased electricity (for which cost is reported in Item 5d) | Millions of Dollars | XX 4-5 |
| b. Generated electricity (gross less generating station use) | | XX 4-6 |
| c. Electricity sold or transferred to other establishments (Report its value in Item 12, Line 18) | | XX 4-7 |
| a. Total quantity of water intake (fresh and brackish, including water for flooding and water used that was produced with oil) in this establishment during 1963. (Check ONE box only) | | 4-8 |
| 1 <input type="checkbox"/> Under 1 million gallons | | |
| 2 <input type="checkbox"/> 1 through 9 million gallons | | |
| 3 <input type="checkbox"/> 10 through 99 million gallons | | |
| 4 <input type="checkbox"/> 20 through 99 million gallons | | |
| 5 <input type="checkbox"/> 100 million gallons or over | | |
| 6 <input type="checkbox"/> Utility | | |
| 7 <input type="checkbox"/> Other source | | |
| a. Fuel oil: | | |
| (1) Distillate, light, Grades 1-4, (P.S. 100, 200) | Barrel (42 gal.) | XX |
| (2) Residual, heavy, Grades 5, 6, (P.S. 300, 400) | | XX |
| b. Gas: Natural, manufactured, and mixed | Thous. cu. ft. | XX |
| c. Gasoline | Thous. gal. | XX |
| d. Other fuels: Liquefied petroleum gas, coke, wood, and other | | XX |
| e. TOTAL COST OF PURCHASED FUELS CONSUMED (Sum of Lines a through d; should be same as Item 5c) | | XX |
| Kind of power equipment | Code | 9 9-1XXX |
| a. Internal combustion engines, steam engines and turbines, and other prime movers: | | |
| (1) In highway-type equipment | 31 | hp |
| (2) In all other equipment | 32 | hp |
| (a) Driving generators | 33 | hp |
| (b) Not driving generators | 34 | hp |
| b. Electric motors (1 horsepower and over) | | hp |

| ITEM 11 SUPPLIES USED IN 1963 | Description A | Line No. 7 | Code B | Unit of measure C | Quantity D | 7-3 | |
|--|---|---------------|-----------|----------------------------|---------------|---------------------|------------------|
| | | | | | | Delivered cost E | Millions' Thous. |
| | Steel mill shapes and forms (such as casing, tubing, pipe, plates, sheets, piling, drill steel bars, wire, and structural shapes) | 1 | 331201 | 4 | Short ton | | |
| | Other supplies used (such as drill bits and reamers, drilling fluid materials, cement, lumber, parts for renewals and repairs, lubricants, and water purchased) | 2 | 970099 | 8 | | | |
| | TOTAL COST (Sum of Lines 1 and 2; same as Item 5a) | 3 | | | | | |
| ITEM 12 SERVICES IN 1963 | Description A | Line No. | Code | Unit of measure | Quantity | 7-3 | |
| | (Report total amounts received or due you for oil and gas field contract work done during 1963. Do not include amounts received for work done prior to 1963.) | | | | | | |
| | a. Work performed | | | | | | |
| | Geophysical exploration | 1 | 13828 01 | 71 | | | |
| | Other exploration | 2 | 13828 03 | 31 | | | |
| | Well surveying and well logging | 3 | 13838 01 | 69 | | | |
| | Drilling oil, gas, dry, or service wells | 4 | 13818 01 | 83 | | | |
| | Drilling in, spudding in, and tailing in | 5 | 13818 02 | 63 | | | |
| | Reworking wells | 6 | 13818 04 | 23 | | | |
| | Building (erecting), repairing, or dismantling rigs and derricks | 7 | 13848 01 | 57 | | | |
| | Excavating slush pits or cellars | 8 | 13848 03 | 17 | | | |
| | Running, cutting, and pulling casing, tubes, or rods | 9 | 13848 05 | 67 | | | |
| | Cementing wells | 10 | 13838 03 | 29 | | | |
| | Perforating well casing | 11 | 13848 07 | 27 | | | |
| | Acidizing and other chemical treatment of wells | 12 | 13848 09 | 87 | | | |
| | Cleaning out, bailing out, or swabbing wells | 13 | 13848 11 | 47 | | | |
| | Installing production equipment, such as wellhead fittings, pumps, and engines | 14 | 13848 13 | 07 | | | |
| | Erecting, cleaning, repairing, or dismantling lease tanks | 15 | 13848 15 | 57 | | | |
| | Oil and gas field machine-shop work | 16 | 35993 00 | 58 | | | |
| | Hauling oil and gas field supplies and equipment | 17 | 95000 03 | 00 | | | |
| | Other work (Specify kind) | 18 | 13848 19 | 77 | | | |
| | b. Resales | | | | | | |
| | Sales of products purchased and resold without further processing | 19 | 99989 00 | 66 | | | |
| | c. TOTAL AMOUNT (Sum of Lines 1 through 19) | 20 | 77000 00 | 88 | | | |
| ITEM 13 CHANGES IN OWNERSHIP OR OPERA- TION OF THIS ESTAB- LISHMENT DURING 1963 | (Check proper box and furnish information) | 1963 | | 1963 | | 1963 | |
| | a. Purchased or leased by you (Enter date, name, and address of former owner or lessee in Item 19.) | Yes | No | | | | |
| | b. Sold or leased (Enter date, name, and address of purchaser or lessee in Item 19.) | | | | | | |
| | c. Went out of business (no new operator) (Specify date in Item 19.) | | | | | | |
| | d. Reorganized (partnership change or change in corporate status) | | | | | | |
| | e. Started new business (no previous operator) | | | | | | |
| | f. Remained the same as in previous year | | | | | | |

**ITEM 14
LEASES
OPERATED
IN 1963**

Did you operate oil and gas field leases for your own account or for others during 1963?
(If answer is "Yes," complete Parts a and b of this item.)

☐ Yes ☐ No

a. Wells operated by you and production, by State and county in 1963

| State A | County B | Number of wells C | Barrels of oil D | Million cubic feet of gas E |
|------------|-------------|----------------------|---------------------|-----------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

b. Wells drilled in 1963 on leases which you operated

Report here the designated costs of drilling and equipping all wells drilled by you on contract for others. Report only the costs specified; do not include other costs such as taxes, interest on investment, etc. Do not report the cost of wells drilled for your own account and not on contract for others. Do not include costs borne directly by oil or gas companies and not covered by amounts received by you for contract work.

| Kind of wells drilled on contract A | Line No. B | 9-1 Wells completed in 1963 | | 9-2 through 9-8 Cost of drilling and equipping wells on contract for oil or gas companies 1 (Thousands of dollars) | | | | Total cost of drilling and equipping C | |
|---|---------------|-----------------------------------|--|--|----|---|----|--|---|
| | | Number of wells 2 C | Total footage drilled (Thousand feet) D | 9-3 Payments to drilling subcon- tractors, including day work and turnkey | | 9-4 Payments to other subcontractors | | All other costs of drilling and equipping H | TOTAL COST (Sum of Columns E, F, G, and H) I |
| | | | | E | F | G | H | | |
| Oil wells | 1 971 | | | \$ | \$ | \$ | \$ | \$ | \$ |
| Gas wells | 2 972 | | | \$ | \$ | \$ | \$ | \$ | \$ |
| Dry holes 4 | 3 973 | | | \$ | \$ | \$ | \$ | \$ | \$ |
| Service wells 5 | 4 974 | | | \$ | \$ | \$ | \$ | \$ | \$ |
| TOTAL (Sum of 1 through 4) | 5 970 | | | \$ | \$ | \$ | \$ | \$ | \$ |

1 Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing, and hauling materials; include machinery and tool charges or rentals, deduct the value of material salvaged after use. Exclude costs borne directly by the oil or gas companies.

2 Count multiple completions as one well.

3 Include cost of delivering and installing equipment, but do not duplicate costs reported under payments to subcontractors (Columns E and F). Deduct value of your equipment that was salvaged and used again, but include cost of salvaging. Include tubing, wellhead fittings, gas traps, flow tanks, etc., and drilling derrick retained over well after completion, or special-production derrick.

4 Include wells drilled and abandoned without commercial production during 1963, even if they were converted to service wells.

5 Include gas-injection, water-injection, and brine-disposal wells. Exclude all converted wells. Exclude dry holes drilled with intent of commercial production even if converted to service wells in 1963.

**ITEM 15
COST OF
DRILLING
AND
EQUIPPING
WELLS COM-
PLETED BY
YOU ON
CONTRACT
FOR OTHERS
IN 1963**

FORM MC-13S-1

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS

1963 CENSUS OF MINERAL INDUSTRIES

OIL AND GAS

PLEASE NOTE:

- A.** The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming. Be sure to **complete every item**. Enter "0" in items B-J, if appropriate.
- B.** If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- C.** Only one report is required for your operation of oil and gas field properties in all States and offshore operations. Include drilling, exploration, and operation of producing wells. The report should be on a gross basis for all leases operated by you, but should exclude your interest in leases operated by others.
- D.** Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.

E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

Figures for dollars should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the CORRECT COLUMNS.** (See example below)

If the payroll is
\$1,125,628.28:

| Mil- lions | Thou- sands | Dol- lars | Cents |
|---------------|----------------|--------------|-------|
| 000 | 000 | 000 | XX |
| \$ 1 | 126 | | XX |
| \$ 1 | 125 | 628 | XX |

EXAMPLE

Preferred method →
Acceptable method →

ITEM A—GENERAL INFORMATION**1. NAME AND ADDRESS OF OPERATING COMPANY**

a. Name

b. Address (Street and number)

c. City

State

CONFIDENTIAL—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

MC-13S-1

KEEP THIS COPY FOR YOUR FILES

**PLEASE COMPLETE AND RETURN THE FORM WHICH
SHOWS YOUR NAME AND ADDRESS**

(Please correct if mailing address has changed)

ITEM C—PAYROLLS

Salaries, wages, bonuses, commissions, and other remunerations paid in 1963, **before deductions.** (Exclude payments to proprietors and partners)

TOTAL →

| Mil- lions | Thou- sands | Dol- lars | Cents | Key |
|---------------|----------------|--------------|-------|-----|
| 000 | 000 | 000 | XX | 0-3 |
| \$ | | | | |

ITEM D—SELECTED COSTS IN 1963

1. Cost of supplies, gas purchased for gas lift and repressuring, and purchased fuels and electric energy consumed in 1963. (Include drill bits and reamers, drilling fluid materials, cement, lumber, pipe, tubing, casing, parts for repairs, lubricants, and water purchased. Report new and used machinery on Line 4.)

2. Cost of contract work done for you by others during 1963. (Include drilling, pumping, cementing, cleaning-out, hauling, etc.)

3. TOTAL COSTS, EXCLUDING MACHINERY →
(Sum of Lines 1 and 2)

4. Cost of new and used machinery, equipment, and parts (not reported above) installed in 1963.

ITEM E—CAPITAL EXPENDITURES IN 1963

Cost of capitalized development, exploration, construction, machinery, and equipment installed in 1963. (Include major alterations and capitalized repairs. Include both new and used equipment. Exclude land and mineral rights.)

| Mil- lions | Thou- sands | Dol- lars | Cents | Key |
|---------------|----------------|--------------|-------|-----|
| 000 | 000 | 000 | XX | 0-4 |
| \$ | | | | |
| 000 | 000 | 000 | XX | 0-5 |
| \$ | | | | |
| 000 | 000 | 000 | XX | 0-6 |
| \$ | | | | |
| 000 | 000 | 000 | XX | 0-7 |
| \$ | | | | |
| \$ | | | | 0-8 |

2. LOCATION OF OPERATIONS IN 1963

a. List States in order of importance in which you had—

| Drilling operations | Well operation and exploration only |
|--|-------------------------------------|
| <p>b. If only one State is listed above, did you have operations in more than one county? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>(If "No" enter name of county)</p> | <p>County</p> |

3. FORM OF OWNERSHIP OF OPERATING COMPANY (Check one)

- 1 ☐ Individual proprietor
- 2 ☐ Partnership
- 0 ☐ Corporation (Do not include any form of cooperative association)
- 8 ☐ Cooperative association (corporate or noncorporate)
- 9 ☐ Other (Specify) _____

4. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER

Enter identification number used for this establishment (as shown on employer's Quarterly Federal Tax Return, Treasury Form 941).

5. COMPANY ORGANIZATION OF OPERATING COMPANY

- a. Does this company operate more than one place of business under the same Employer Identification Number shown in 4 above? ☐ Yes ☐ No
- b. Does this company own or control another company? ☐ Yes ☐ No
- c. Is this company owned or controlled by another company? ☐ Yes ☐ No

(If "Yes" is checked in Part c, give name and address of owning or controlling company.)

ITEM B—NUMBER OF PERSONS ENGAGED

| Total number | | Key |
|---|--|-----|
| <p>1. Number of proprietors and partners who regularly performed manual (production, development, or exploration) work at this operation in 1963.</p> | | 0-1 |
| <p>2. Number of paid employees during the pay-period ended nearest March 15, 1963 (exclude proprietors and partners).</p> | | 0-2 |

FOR CENSUS USE ONLY

| | | | | | | | |
|---|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

ITEM F—PRODUCTS AND SERVICES OF THIS ESTABLISHMENT IN 1963

Report the entire output of wells operated by you and reported in Item H, including royalty interests and subsidy payments. Volumes for crude petroleum, Lines 1 and 2, are to be reported in thousands of barrels corrected to 60° F. Volumes for natural gas, Lines 3 through 11, are to be reported in million cubic feet at a pressure base of 14.65 pounds absolute at 60° F. For Line 6, Col. (E), include the producer's realization from all products contained in the gas delivered to natural gas liquids plants.

| Line number | Products and services (A) | 8 | 8-1X Census product code (B-1) | 8-3 Quantity (Report in the unit of measure as specified) (D) | 8-4 Total value at well (E) | | |
|-------------|---|---|--------------------------------------|---|-----------------------------------|----------------|------------|
| | | | | | Mil- lions | Thou- sands | Cen- ts |
| 1 | Crude petroleum, including field condensate and drips (See instructions above) | | 13120 03 58 | Thous. barrels | | | |
| 2 | Shipped | | | | | | |
| 2 | Used in lease operations for power, heat, or other purposes, including losses | | 13120 06 88 | | | | |
| 3 | Natural gas (See instructions above) | | 13130 01 86 | Mil. cu. ft. | | | |
| 3 | From oil wells (casinghead) | | | | | | |
| 4 | From gas wells | | 13130 03 46 | | | | |
| 5 | GROSS PRODUCTION (Sum of Lines 3 and 4) | | 13130 09 16 | | | | |
| 6 | Shipped | | | | | | |
| 6 | To distributors and transmission companies and net to natural gas liquids plants | | 13130 12 56 | | | | XX |
| 7 | To consumers (domestic, commercial, and industrial) | | 13130 22 46 | | | | XX |
| 8 | Used in lease operations for power, heat, or gas lift (net) | | 13130 37 26 | | | | |
| 9 | Returned to underground formations for repressuring, pressure maintenance, and cycling | | 13130 52 16 | | | | |
| 10 | Vented to air, burned in flares, and other losses | | 13130 72 96 | | | | |
| 11 | GROSS DISPOSITION (Sum of Lines 6 through 10; should be the same as Line 5) | | 13130 82 86 | | | | |
| 12 | Other products shipped (Specify kind and unit of measure) | | | | | | XX |
| 13 | Amount received or due for work or services performed for other establishments (Specify kind of work) | | | | | | XX |
| 14 | | | | | | | XX |
| 15 | TOTAL VALUE (Sum of Lines 1 through 14) | | 77000 99 08 | | | | XX |

Please complete form and sign certification on reverse side

ITEM G—NONPRODUCING ESTABLISHMENTS

Indicate the operations of this establishment if no oil or gas was produced during 1963 (Check one)

☐ Drilling only☐ Exploration work☐ Wells shut-in☐ Abandoned**ITEM H—NUMBER OF WELLS OPERATED**

Report the number of oil and gas wells operated by you in the States (including offshore territories) listed in Item A-2. If a well produced both oil or condensate and gas, classify it according to its most valuable total product; do not report it as both an oil and gas well. Service wells (gas injection, water injection, brine disposal, etc.) should be reported on Lines 5, 6, and 15. Report on Line 11 the number of oil and gas wells converted to service wells.

| Line No. | Item (A) | Code (B) | Number of wells | | | Line No. | Item (A) | Code (B) | Number of wells | | |
|----------|---|-------------|-----------------|------------|------------|----------|--|-------------|-----------------|------------|------------|
| | | | Total (C) | Oil (D) | Gas (E) | | | | Total (C) | Oil (D) | Gas (E) |
| 1 | Producing during December 1962 | 921 | | | | 9 | Producing during December 1963 | 931 | | | |
| 2 | Shut-in or idle during all of December 1962 | 922 | | | | 10 | Shut-in or idle during all of December 1963 | 932 | | | |
| 3 | Drilled and completed during 1963 | 923 | | | | 11 | Converted to service wells in 1963 | 933 | | | |
| 4 | Dry holes | 925 | | | | 12 | Abandoned in 1963 (exclude dry holes) | 934 | | | |
| 5 | Service wells (exclude converted wells) | 926 | | | | 13 | Sold (or leased) in 1963 | 935 | | | |
| 6 | Wells recompleted in 1963 | 927 | | | | 14 | TOTAL (Sum of Lines 9 through 13; should be same as Line 8) | | | | |
| 7 | Purchased (or leased) in 1963 | 928 | | | | 15 | Wells being used for service during 1963 | 936 | | | |
| 8 | TOTAL (Sum of Lines 1, 2, 3, and 7) | | | | | | | | | | |

ITEM I—COST OF DRILLING AND EQUIPPING WELLS COMPLETED IN 1963

Report the designated costs of drilling and equipping all wells completed in 1963, including the cost of dry holes and service wells drilled as reported in Item H, Lines 3, 4, and 5. Report only the costs specified; do not include other costs, such as taxes, interest on investment, etc. Do not reduce costs by test well and dry hole contributions.

| Line number | Kind of well (A) | Code (B) | Wells completed during 1963 | | Cost of drilling and equipping wells completed in 1963 ¹ | | | | | | | | | | | |
|-------------|--|-------------|-----------------------------|-----|---|--|----------------|--------------|------------|---|----------------|--------------|------------|---|----------------|--------------|
| | | | 9-1 | 9-2 | 9-3 | Payments to contractors, including day work and turnkey (E) | | | | Any other costs of drilling and equipping ² (F) | | | | TOTAL COST (Sum of Cols. (E) and (F)) (G) | | |
| | | | | | | Mil- lions | Thou- sands | Dol- lars | Cen- ts | Mil- lions | Thou- sands | Dol- lars | Cen- ts | Mil- lions | Thou- sands | Dol- lars |
| 1 | Oil wells | 961 | | | | 000 | 000 | 000 | XX | 000 | 000 | 000 | XX | 000 | 000 | XX |
| 2 | Gas wells | 962 | | | | | | | XX | | | | XX | | | XX |
| 3 | Dry holes ³ | 963 | | | | | | | XX | | | | XX | | | XX |
| 4 | Service wells ⁴ | 964 | | | | | | | XX | | | | XX | | | XX |
| 5 | TOTAL (Sum of Lines 1 through 4; Col. (C) should be sum of Lines 3, 4, and 5, Col. (C), Item H) | 960 | | | | | | | XX | | | | | | | XX |

¹ Report cost of labor, supplies, water, fuel, and power used in such operations as erecting and dismantling drilling rig and derrick, drilling hole, running and cementing casing, and hauling materials; include machinery and tool charges or rentals, deduct the value of material salvaged after use.² Include cost of delivering and installing equipment, but do not duplicate costs reported under payments to contractors (Column E). Deduct value of your equipment that was salvaged and was used again, but include cost of salvaging. Include casing, tubing, wellhead fittings, gas traps, flow tanks, etc., and drilling derrick retained over well after completion, or special-production derrick.³ Include wells drilled and abandoned without commercial production during 1963, even if they were converted to service wells.⁴ Include gas-injection, water-injection, and brine-disposal wells. Exclude all converted wells. Exclude dry holes drilled with intent of commercial production even if converted to service wells in 1963.

FORM J—STATE AND COUNTY DATA FOR 1963

List the States and counties in which you had oil or gas field exploration, drilling, or production operations during 1963. (Show separately figures for offshore operations for each State.) Total figure in Col. (C), Line 7, should be the same as Item B, Line 2. Total figure in Col. (D), Line 7, should be the same as Item F, Line 1, Col. (D). Total figure in Col. (E), Line 7, should be the sum of Lines 6 and 7, Item F, Col. (D). Total figure in Col. (F), Line 7, should be the same as Item E.

REMARKS (If additional sheets of paper are used, enter on each sheet the 11-digit file number, located in the address box above your name.)

This report covers the period from _____ to _____.

FORM MC-14A
(1401)U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS1963 CENSUS OF MINERAL INDUSTRIES
STONE**CONFIDENTIAL**—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

MC-14A (1401)

PLEASE NOTE:

- A.** The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming.
- B.** If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- C.** A separate report is required from the operator for each mine, quarry, or separately operated mill or crushing plant.
- D.** Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.

E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

IMPORTANT: Figures for dollars, man-hours, and KWH should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the CORRECT COLUMNS.**

EXAMPLE

If the payroll is \$1,125,628.28:

Preferred method →

Acceptable method →

| Millions | Thousands | Dollars | Cents |
|----------|-----------|---------|-------|
| 000 | 000 | 000 | XX |
| \$ 1 | 126 | | XX |
| \$ 1 | 125 | 628 | XX |

ITEM 1. GENERAL INFORMATION
A. NAME OF ESTABLISHMENT

B. PHYSICAL LOCATION OF ESTABLISHMENT on December 31, 1963. (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number at establishment location*

*If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charleville.

(Please correct if mailing address has changed)

| COMPLETE EVERY ITEM (Enter "0" where appropriate) | | 1963 | | | | Key |
|---|--|--------------|--------|--------|-------|------|
| ITEM 2A NUMBER OF EMPLOYEES IN 1963 | a. Number of production, development, and exploration workers during pay period ended nearest 15th of— | (1) March | | | | 0-1 |
| | | (2) May | | | | 0-2 |
| | | (3) August | | | | 0-3 |
| | | (4) November | | | | 0-4 |
| b. Sum of Lines (1) through (4) | | | | | | 0-5 |
| c. AVERAGE NUMBER (divide sum on Line b by 4) | | | | | | 0-6 |
| d. All other employees, March 15th | | | | | | 0-7 |
| e. TOTAL NUMBER OF EMPLOYEES (Sum of Lines c and d) | | | | | | 0-8 |
| ITEM 2B—PROPRIETORS AND FIRM MEMBERS IN 1963 | a. Total number of proprietors and firm members (not applicable to corporations) | | | | | 3-1 |
| | b. Number of proprietors and firm members (included in Line a above) regularly performing production, development, or exploration work at this establishment | | | | | 3-2 |
| ITEM 3 PAYROLLS IN 1963 | a. Production, development, and exploration worker wages | Millions | Thous. | Dolls. | Cents | 1-1 |
| | b. All other employee salaries and wages | \$ | | | | 1-2 |
| | c. TOTAL PAYROLL (Sum of Lines a and b) | \$ | | | | 1-3* |
| ITEM 4 MAN-HOURS OF PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKERS BY DEPARTMENTS IN 1963 | a. At mine or quarry | Millions | Thous. | Hours | | 3-3 |
| | (1) Underground (mining and development) | | | | | 3-4 |
| | (2) Open-pit or quarry (mining and stripping) | | | | | 3-5 |
| | (3) Surface (including mine shops and yards) | | | | | 3-6 |
| b. At mill or crushing plant (including auxiliary works for this mill or plant) | | | | | | |
| c. TOTAL PRODUCTION, DEVELOPMENT, AND EXPLORATION WORKER MAN-HOURS (Sum of a and b) | | | | | | 3-7 |
| d. Man-hours included above which were spent on exploration and development | | | | | | 3-8 |

| (2) Place (Check type of place and enter name) | | ITEM 5 COST OF SUPPLIES, MINERALS RECEIVED FOR PREPARATION OF FUELS, ELECTRICITY, CONTRACT WORK, AND MACHINERY IN 1963 | | ITEM 6 CAPITAL EXPENDITURES DURING 1963 (Exclude land and mineral rights) | | ITEM 7 QUANTITY OF ELECTRICITY IN 1963 | | ITEM 8 WATER INTAKE IN 1963 | | ITEM 9 FUELS CONSUMED IN 1963 | | ITEM 10 HORSE-POWER RATING OF POWER EQUIPMENT AT END OF 1963 | |
|---|---------------|---|--------------------------|--|---|---|---|--------------------------------|--|----------------------------------|--|---|--|
| Type (Check first applicable one) | Name of place | | | | | | | | | | | | |
| <input type="checkbox"/> City | | | | | | | | | | | | | |
| <input type="checkbox"/> Village or Borough | | | | | | | | | | | | | |
| <input type="checkbox"/> Town | | | | | | | | | | | | | |
| <input type="checkbox"/> Township | | | | | | | | | | | | | |
| <input type="checkbox"/> Other (Specify) | | | | | | | | | | | | | |
| (3) Is the establishment within the legal boundary of the place reported in (2) above? | | Yes | No | | | | | | | | | | |
| (4) County | | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | |
| (5) State | | | | | | | | | | | | | |
| C. FORM OF OWNERSHIP OF OPERATING COMPANY AT END OF 1963 (Check one) | | | | | | | | | | | | | |
| 1 <input type="checkbox"/> Individual proprietor | | | | | | | | | | | | | |
| 2 <input type="checkbox"/> Partnership | | | | | | | | | | | | | |
| 3 <input type="checkbox"/> Corporation (Do not include any form of cooperative association) | | | | | | | | | | | | | |
| 4 <input type="checkbox"/> Cooperative association (corporate or noncorporate) | | | | | | | | | | | | | |
| 5 <input type="checkbox"/> Other (Specify) | | | | | | | | | | | | | |
| D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941). | | | | | | | | | | | | | |
| E. COMPANY ORGANIZATION OF OPERATING COMPANY (1) Does this company operate more than one place of business under the same Identification Number shown in D above? Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | |
| (2) Does this company own or control another company? <input type="checkbox"/> | | | | | | | | | | | | | |
| (3) Is this company owned or controlled by another company? <input type="checkbox"/> | | | | | | | | | | | | | |
| If "Yes," is checked in Part (3), give name and address of owning or controlling company. | | | | | | | | | | | | | |
| FOR CENSUS USE ONLY | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | | |
| | | | | | | | | | | | | | |

| a. Supplies used and minerals received for preparation | | Millions | Thous. | Dols. | Cents |
|--|--|---|---|------------------------|--------|
| b. Stone and other products bought and resold without further processing | | \$ | | | XX 2-1 |
| c. Purchased fuels consumed | | \$ | | | XX 2-2 |
| d. Purchased electricity | | \$ | | | XX 2-3 |
| e. Contract work done for you by others | | \$ | | | XX 2-4 |
| f. TOTAL COST, excluding purchased machinery (Sum of Lines a through e) | | \$ | | | XX 2-5 |
| g. Purchased machinery installed (include all new and used machinery, equipment, parts, and used plant not reported above) | | \$ | | | XX 2-6 |
| a. Development and exploration of mineral property | | \$ | | | XX 2-7 |
| b. Mill, crushing plant, and other construction (including capitalized repairs) | | \$ | | | XX 2-8 |
| c. New machinery and new equipment (including capitalized repairs) | | \$ | | | XX 4-1 |
| d. Used plant and used equipment acquired from others | | \$ | | | XX 4-2 |
| e. TOTAL CAPITAL EXPENDITURES (Sum of Lines a through d) | | \$ | | | XX 4-3 |
| a. Purchased electricity (for which cost is reported in Item 5d) | | Millions <td>Thous. <td>R.W.H. <td>XX 4-4</td> </td></td> | Thous. <td>R.W.H. <td>XX 4-4</td> </td> | R.W.H. <td>XX 4-4</td> | XX 4-4 |
| b. Generated electricity (gross less generating station use) | | | | | XX 4-5 |
| c. Electricity sold or transferred to other establishments (Report its value in Item 12A, Line 12) | | | | | XX 4-6 |
| a. Total quantity of water intake (fresh and brackish, including mine water) in this establishment during 1963. (Check ONE box only) | | | | | XX 4-7 |
| 1 <input type="checkbox"/> Under 1 million gallons | 4 <input type="checkbox"/> 20 through 99 million gallons | | | | |
| 2 <input type="checkbox"/> 1 through 9 million gallons | 5 <input type="checkbox"/> 100 million gallons or over | | | | |
| 3 <input type="checkbox"/> 10 through 19 million gallons | | | | | |
| b. Was your principal source of water, except mine water, from (1) publicly- or privately-owned utility; or (2) another source? | | | | | |
| 1 <input type="checkbox"/> Utility | | | | | |
| 2 <input type="checkbox"/> Other source | | | | | |

| a. Coal: Bituminous, lignite, and anthracite | | 21 | Short ton | Unit of measure | Code | 9-1 | 9-2 | 9-3 |
|--|--|----|--|-----------------|------|-----|-----|-----|
| b. Fuel oil: | | 22 | Barrel (42 gal.) <td></td> <td></td> <td></td> <td></td> <td></td> | | | | | |
| (1) Distillate, light, Grades 1-4 (P.S. 100, 200) | | 23 | | | | | | |
| (2) Residual, heavy, Grades 5, 6 (P.S. 300, 400) | | 24 | Thous cu-ft. | | | | | |
| c. Gas: Natural, manufactured, and mixed | | 25 | Thous gal. | | | | | |
| d. Gasoline | | 26 | | | | | | |
| e. Other fuels: Liquefied petroleum gas, coke, wood, and other | | | | | | | | |
| f. TOTAL PURCHASED FUELS CONSUMED (Sum of a through e; should be the same as Item 3c) | | | | | | | | |
| a. Internal combustion engines, steam engines and turbines, and other prime movers: | | | | | | | | |
| (1) In highway-type equipment | | | | | | | | |
| (2) In all other equipment | | | | | | | | |
| (a) Driving generators | | 31 | hp | | | | | |
| (b) Not driving generators | | 32 | hp | | | | | |
| b. Electric motors (1 horsepower and over) | | 33 | hp | | | | | |
| c. Include power units for locomotives, tractors, trucks, shaft hoists, and other haulage units. | | 34 | hp | | | | | |
| d. Include power units for shovels, dragline excavators, scrapers, and other mechanical loading equipment, both underground and surface. | | | | | | | | |
| e. Include power units for churn drills, compressors, pumps, machine tools, mill and crushing plant machinery, etc. | | | | | | | | |

| ITEM 11 SUPPLIES AND MINERALS FOR PREPARATION IN 1963 | | 7 | | 7-1 | | 7-2 | | 7-3X | | 7-5 | |
|---|---|----------|--|----------------------------|--|---|--|---------------------------------------|--|---|--|
| Description A | | Line No. | | Census material code B | | Received from other mines or plants of this company, purchased from others, and, in "a," stone received for preparation on a custom or toll basis | | Delivered cost E | | Quantity of stone from this mine or plant (Short tons) F | |
| | | | | | | Quantity (Short tons) D | | Millions Thous. Dollars Cent | | | |
| a. Minerals for preparation (Estimate value of stone received for custom preparation) Rough blocks used to produce dressed stone | | 1 | | 141101 | | 6 | | | | | |
| Broken stone received for crushing, screening, or washing | | 2 | | 142101 | | 5 | | | | | |
| b. Supplies used (such as explosives, steel mill shapes and forms, timber and lumber purchased, forgings and castings, drill bits, other tools and parts, lubricants, and water purchased) | | 3 | | 970099 | | 8 | | | | | |
| c. TOTAL COST (Sum of Lines 1 through 3; same as Item 5a) | | 4 | | | | | | | | | |
| The Bureau of Mines (U.S. Department of the Interior) collects detailed figures on the mineral products listed below. This item provides only summary figures which will serve to relate the statistics compiled from the Census of Mineral Industries to the statistics compiled from Bureau of Mines surveys. For comparable items the same data should be reported both to the Bureau of Mines and the Bureau of the Census. | | | | | | | | | | | |
| ITEM 12A PRODUCTS AND SERVICES IN 1963 | | 8 | | 8-1 | | 8-2 | | 8-3 | | 8-4 | |
| Description A | | Line No. | | Census product code B-1 | | Unit of measure B-2 | | Quantity of production C | | Shipments and interplant transfers Value f.o.b. quarry or plant E | |
| | | | | | | | | Quantity D | | Millions Thous. Dollars Cent | |
| a. Products of this establishment | Limestone (Including dolomite, cement rock, marl, travertine, calcareous tufa) | 1 | | 14121 01 | | 66 | | | | | |
| | | 2 | | 32812 01 | | 83 | | | | | |
| | | 3 | | 14222 01 | | 25 | | | | | |
| | Granite (Including gneiss, syenite, diorite) | 4 | | 14131 01 | | 54 | | | | | |
| | | 5 | | 32811 01 | | 03 | | | | | |
| | | 6 | | 14232 01 | | 13 | | | | | |
| | Other stone (Including slate, marble, trap rock, sandstone, quartz, and miscellaneous types of stone) | 7 | | 14191 01 | | 91 | | | | | |
| | | 8 | | 32813 01 | | 63 | | | | | |
| | | 9 | | 14292 01 | | 50 | | | | | |
| | All other products | 10 | | 32730 11 | | 10 | | Cubic yd. | | | |
| 11 | | 29310 51 | | 82 | | | | | | | |
| 12 | | | | | | | | | | | |
| b. Receipts for services performed for other establishments (such as hauling, stripping, pumping, and shopwork) (Exclude amounts received for dressing, milling, or crushing stone on a custom or toll basis) | | 13 | | 14808 01 | | 83 | | | | | |
| c. Resales. Sales of stone and other products purchased and resold without further processing | | 14 | | 99989 00 | | 66 | | | | | |
| d. TOTAL VALUE (Sum of Lines 1 through 14) | | 15 | | 77000 00 | | 88 | | | | | |

| 9 | | 9-1 | | 9-2 | |
|--|--|---------------------------------------|--|---|--|
| | | Code | | Millions Thous. | |
| Amount received or due for custom or toll dressing, milling, or crushing of stone (The production and shipments of such stone should be included in Item 12A, Lines 1 through 9.) | | 917 | | \$ | |
| (Check proper box and furnish information) | | | | | |
| ITEM 12B CUSTOM WORK IN 1963 | | 1963 | | 1963 | |
| | | Yes | | No | |
| a. Purchased or leased by you (Enter date, name, and address of former owner or lessee in Item 19.) | | | | | |
| b. Sold or leased (Enter date, name, and address of purchaser or lessee in Item 19.) | | | | | |
| c. Went out of business (no new operator) (Specify date in Item 19.) | | | | | |
| ITEM 14 TYPE OF OPERATION IN 1963 | | Type | | Key | |
| | | a. Mining methods (check one or more) | | b. Preparation methods (check one or more) | |
| | | (1) Open pit or quarry | | (1) No preparation | |
| | | (2) Underground | | (2) Dimension stone dressing (sawing, turning, planing) | |
| | | (3) Other (Specify) | | (3) Crushing, grinding, or pulverizing | |
| | | | | (4) Screening | |
| | | | | (5) Washing | |
| | | | | (6) Other (Specify) | |
| | | Code | | Code | |
| | | 620 | | 688 | |
| | | 630 | | 686 | |
| | | | | 687 | |
| | | | | 685 | |
| | | | | 699 | |
| | | | | 8-2 | |
| | | | | 8-3 | |
| | | | | 8-4 | |
| | | | | 8-5 | |
| | | | | 8-6 | |
| | | | | ★ | |
| ITEMS 15-16-17 | | Not applicable to this form | | | |
| ITEM 18 CHECKS TO ASSURE COMPLETE AND ACCURATE REPORTING | | | | | |
| The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report: | | | | | |
| a. Review the report carefully to see that no items are omitted for the year being covered. | | | | | |
| b. Calculate the four "reasonableness" checks described below, entering the figures for each, and review the results. | | | | | |
| c. Correct your report for any errors you find; explain unusual figures in "Remarks" section. | | | | | |
| "Reasonableness" check | | | | | |
| Calculation required for each check | | | | | |
| Resulting figures for 1963 | | | | | |
| (1) Average hourly wages per production worker | | | | | |
| Item 3a (Production worker wages) ÷ Item 4c (Man-hours of production workers) | | | | | |
| (2) Hours worked per year per production worker | | | | | |
| Item 4c (Man-hours of production workers) × 1,000 ÷ Item 2Ac (Average number of production workers) | | | | | |
| (3) Salaries and wages per dollar of shipments and receipts | | | | | |
| Item 3c (Total payroll) ÷ Item 12Ad (Total value of shipments and receipts) | | | | | |
| (4) Supplies, etc., cost per dollar of shipments and receipts | | | | | |
| Item 5f (Total supplies, etc. cost) ÷ Item 12Ad (Total value of shipments and receipts) | | | | | |
| (If additional sheets of paper are used, enter the 11-digit File number located in the address box above your name on each sheet.) | | | | | |
| ITEM 19 REMARKS | | | | | |
| Name of person to be contacted regarding this report. | | | | | |
| Address | | | | | |
| Telephone No. | | | | | |
| ITEM 20 | | | | | |
| CERTIFICATION—This report is substantially accurate and has been prepared in accordance with instructions. | | | | | |
| PERIOD OF REPORT | | | | | |
| This report covers the period— | | | | | |
| From | | | | | |
| To | | | | | |
| Signature of authorized official | | | | | |
| Title | | | | | |
| Date | | | | | |

BUREAU OF THE CENSUS
1963 CENSUS OF MINERAL INDUSTRIES
FORM EC-44
(10-16-63)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|----|----|----|------------------------------------|----|---|----|--|----|------------------------------------|----|--------------------------------|----|---------------------------|----|---------------------------|----|--|----|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | |
| IDENTIFICATION NUMBER | | | | | | | | | | | | FIELD 1 SERIAL NUMBER | | FIELD 2 FORM RECODE | | FIELD 3 HISTORIC IND SUBINDUSTRY CODE | | FIELD 4 STATE COUNTY CITY CODES | | FIELD 5 TRACT CODE | | FIELD 6 ASM AND SOURCE | | FIELD 7 SIGNALS I | | FIELD 8 SIGNALS II | | XXXXXXXXXXXXXX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 000000000000 | | | | | | | | | | | | MARCH | | MAY | | AUGUST | | NOVEMBER | | SUM | | AVERAGE NUMBER | | ALL OTHER EMPLOYEES MARCH | | TOTAL NUMBER OF EMPLOYEES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 111111111111 | | | | | | | | | | | | PRODUCTION WORKERS, ETC. | | ALL OTHER EMPLOYEES | | TOTAL | | 111111111111 | | 111111111111 | | 111111111111 | | 111111111111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 222222222222 | | | | | | | | | | | | SUPPLIES, ETC. | | RESALES WITHOUT FURTHER PROCESSING | | FUELS PURCHASED AND CONSUMED | | PURCHASED ELECTRICITY | | CONTRACT WORK BY OTHERS | | TOTAL | | PURCHASED MACHINERY | | EXPENDITURES FOR EXPLORATION AND DEVELOPMENT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 333333333333 | | | | | | | | | | | | PROPRIETORS AND FIRM MEMBERS TOTAL | | PROPRIETORS, ETC. DOING PRODUCTION WORK | | MAN HOURS OF PRODUCTION, DEVELOPMENT AND EXPLORATION WORKERS (000) | | MULTIPLE USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 444444444444 | | | | | | | | | | | | NEW STRUCTURES AND ADDITIONS | | NEW MACHINERY AND EQUIPMENT | | USED PLANT AND EQUIPMENT | | TOTAL | | PURCHASED | | GENERATED | | SOLD OR TRANSFERRED | | WATER USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 555555555555 | | | | | | | | | | | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 666666666666 | | | | | | | | | | | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 777777777777 | | | | | | | | | | | | MATERIAL CODE | | QUANTITY | | COST (\$000) | | 7777777777 | | QUANTITY PRODUCED AND CONSUMED | | 7777777777 | | 7777777777 | | 7777777777 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 888888888888 | | | | | | | | | | | | PRODUCT CODE | | QUANTITY OF PRODUCTION | | TOTAL SHIPMENTS AND TRANSFERS | | QUANTITY | | VALUE (\$000) | | MULTIPLE USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 999999999999 | | | | | | | | | | | | SPECIAL INQUIRY CODE | | MULTIPLE USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 684744 | | | | | | | | | | | | 13 | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |

LONG FORM CARD

BUREAU OF THE CENSUS
1963 CENSUS OF MINERAL INDUSTRIES
FORM EC-45
(10-16-63)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|---|---|---|---|---|---|---|----|----|----|-----------------------------------|----|---------------------------|----|--|----|------------------------------------|----|-------------------------|----|---------------------------|----|----------------------|----|------------------------------|----|----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | |
| IDENTIFICATION NUMBER | | | | | | | | | | | | FIELD 1 SERIAL NUMBER | | FIELD 2 FORM RECODE | | FIELD 3 HISTORIC IND SUBINDUSTRY CODE | | FIELD 4 STATE COUNTY CITY CODES | | FIELD 5 TRACT CODE | | FIELD 6 ASM AND SOURCE | | FIELD 7 SIGNALS I | | FIELD 8 SIGNALS II | | XXXXXXXXXXXXXX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 000000000000 | | | | | | | | | | | | PROPRIETORS DOING PRODUCTION WORK | | TOTAL NUMBER OF EMPLOYEES | | TOTAL PAYROLLS (\$000) | | SUPPLIES | | CONTRACT WORK BY OTHERS | | TOTAL | | PURCHASED MACHINERY | | CAPITAL EXPENDITURES (\$000) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 111111111111 | | | | | | | | | | | | 1111111111 | | 1111111111 | | 1111111111 | | 1111111111 | | 1111111111 | | 1111111111 | | 1111111111 | | 1111111111 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 222222222222 | | | | | | | | | | | | 2222222222 | | 2222222222 | | 2222222222 | | 2222222222 | | 2222222222 | | 2222222222 | | 2222222222 | | 2222222222 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 333333333333 | | | | | | | | | | | | 3333333333 | | 3333333333 | | 3333333333 | | 3333333333 | | 3333333333 | | 3333333333 | | 3333333333 | | 3333333333 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 444444444444 | | | | | | | | | | | | 4444444444 | | 4444444444 | | 4444444444 | | 4444444444 | | 4444444444 | | 4444444444 | | 4444444444 | | 4444444444 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 555555555555 | | | | | | | | | | | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | 5555555555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 666666666666 | | | | | | | | | | | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | 6666666666 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 777777777777 | | | | | | | | | | | | 7777777777 | | 7777777777 | | 7777777777 | | 7777777777 | | 7777777777 | | 7777777777 | | 7777777777 | | 7777777777 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 888888888888 | | | | | | | | | | | | PRODUCT CODE | | QUANTITY OF PRODUCTION | | TOTAL SHIPMENTS AND TRANSFERS | | QUANTITY | | VALUE (\$000) | | MULTIPLE USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 999999999999 | | | | | | | | | | | | SPECIAL INQUIRY CODE | | MULTIPLE USE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 684745 | | | | | | | | | | | | 13 | | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |

SHORT FORM CARD

Appendix B

AUTHORITY FOR CENSUS: TITLE 13, UNITED STATES CODE

(Codification of August 1954 amended by Acts of August 1957, September 1960, and June and October 1962)

Collection and publication: Five-year periods (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses . . . in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: **Provided**, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to the year 1954.

Geographic scope of censuses (191a)

Each of the censuses authorized by this chapter (other than censuses of population) shall include each State, the District of Columbia, Alaska, Hawaii, the Virgin Islands, Guam, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States

exercises jurisdiction, control, or sovereignty. Censuses of population shall include all geographic areas referred to in the preceding sentence. Inclusion of other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

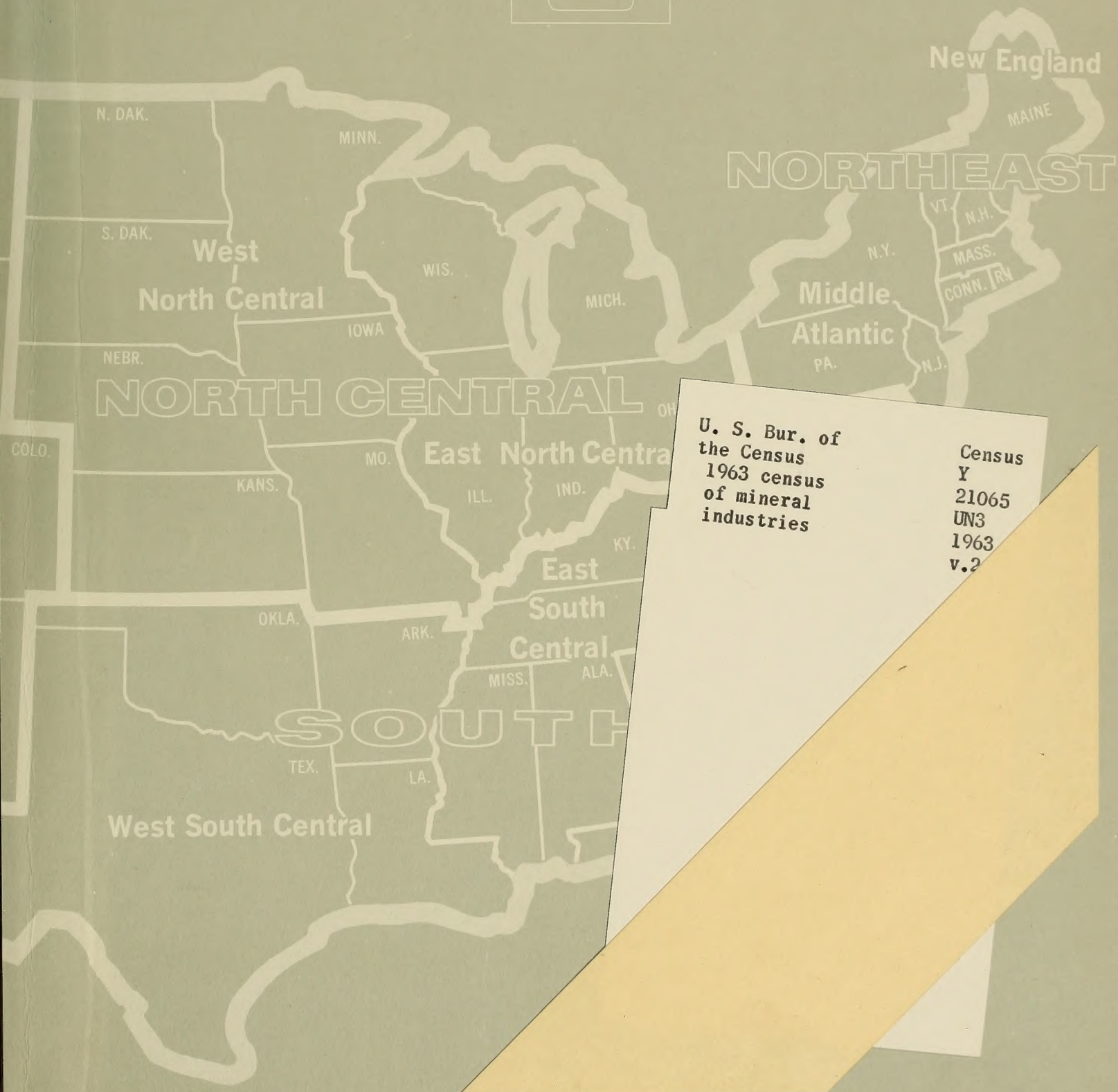
Failure to answer questions affecting companies, businesses, religious bodies, and other organizations: False answers (224)

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by certified mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.

CENSUS REGIONS AND GEOGRAPHIC DIVISIONS



OF THE UNITED STATES



U. S. Bur. of
the Census
1963 census
of mineral
industries

Census
Y
21065
UN3
1963
v.2

CB/Bureau of the Census Library



5 0673 01034290 8